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107 181.5 5.3 847 2 US-08-440-816A-5  
108 181.5 5.3 847 3 US-09-417-381A-5  
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110 179 5.2 696 3 US-07-757-342D-4  
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112 177.5 5.2 822 2 US-08-286-846A-2  
113 177.5 5.2 822 2 US-08-457-880A-2  
114 177.5 5.2 822 3 US-08-444-622A-2  
115 177.5 5.2 822 3 US-08-942-562-2  
116 177.5 5.2 822 3 US-08-156-923-2  
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119 177.5 5.2 1025 2 US-08-587-680A-4  
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135 170 4.9 1112 3 US-09-353-595-2  
136 169 4.9 746 5 PCT-US955-10509-2  
137 168 4.9 1112 3 US-07-757-342D-3  
138 166.5 4.8 700 3 US-07-757-342D-3  
139 165.5 4.8 910 4 US-09-228-986-72  
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142 164 4.8 105 3 US-09-540-153-3  
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148 162.5 4.7 735 3 US-09-540-245A-9  
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## ALIGNMENTS

RESULT 1  
US-09-996-243-229  
Sequence 229, Application US/09996243  
Patent No. 6478825

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730F1C13  
CURRENT APPLICATION NUMBER: US/09/996,243  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
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PRIOR FILING DATE: 1998-06-10  
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PRIOR APPLICATION NUMBER: 60/091633	
PRIOR FILING DATE: 1998-07-02	
PRIOR APPLICATION NUMBER: 60/091978	
PRIOR FILING DATE: 1998-07-07	
PRIOR APPLICATION NUMBER: 60/091982	
PRIOR FILING DATE: 1998-07-07	
PRIOR APPLICATION NUMBER: 60/092182	
PRIOR FILING DATE: 1998-07-09	

Query Match	100.0%	Score 3460; 22.7
Best Local Similarity	100.0%	Pred. No. 2.1e-315;
Matches 653; Conservative	0; Mismatches	0; Indels
	0; Gaps	0;

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RESULT 2  
US-09-996-243-501  
Sequence 501, Application US/09996243  
Patent No. 6478825  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Forg, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tunas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730PIC13  
CURRENT APPLICATION NUMBER: US/09/996,243  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match

54.2%; Score 1865; DB 4; Length 640;

Best Local Similarity 56.4%; Pred. No. 6.5e-167;  
Matches 363; Conservative 107; Mismatches 130; Indels 44; Gaps 14;

QY 22 VYLAQVWILCAIAAASAGPQPCSPVSCSNQPSKVCVCTRGLESEVPQIGISNTRYLN 81  
DB 29 VLLALQLLWAGLVRA-----QTCPSVSCSNQPSKVICRKNLREVDPGISTNTRYLN 82  
QY 82 LMENNIQMIQADTFRHLHLEVLQIGENSIRQIEVGAPNGLASINTLELFDNWLTVIPSG 141  
DB 83 LHEHQIQQIKVNSFKLRLHLEILQLSRHHRTIEIGAFNGLANLNTLELFDNRLTTPNG 142  
QY 142 AFEYLSKLREELWLNPNPTESIPSYAFNRVPSLMKLDIGELKCKLEYISEGAFEGFLNLYL 201  
DB 143 AFYLSKLKELWLNPNPTESIPSYAFNRVPSLMKLDIGELKCKLEYISEGAFEGFLNLYL 202  
QY 202 NLGMCNINMPNLTPVGLERLEMSGNHFPBIRPGSHGLSSLLKLVWMSQVSLIERNA 261  
DB 203 NLAMCNLREIPNLTPVGLERLEMSGNHLSAIRPGSHGLHQLKLVWMSQVSLIERNA 262  
QY 262 FDGLASVLELNLHNNLSSLPDHLFTPLRYLVLELHNNPNCDCDILWLAWMLREYIPT 321  
DB 263 FDLQSLVEINLHNNLTLPHDLFTPLHLERHLEHNNPNCDCDILWLAWMLREYIPT 322  
QY 322 NSTCCGRCHAPMHMEGRYLVVDQASFOCSAPFINDAPRDLINISEGRMAELKCR-TPPMS 380  
DB 323 NTACCARCNTPPNLKGRYIGELDQNYFTCYAPVIVEPPADLNVTEGMAAELKCRASLT 382  
QY 381 SVKLLPNTVLSHARPRISVLDNDGTLNESHVLLSDTVTTCMTNVNAGNSASAYLN 440  
DB 383 SVSWITPNTVTHGAYKRYIAVLSGTLNFTVQDTGHTCNVNSVONTTASATLN 442  
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DB 443 VTAA--TTFPSYFSTVIVETWERSQDEARTDNNVGPVVDWETNV-----TTSLT 494  
QY 493 VLIQTR-VPKQVAPATDTRDKATSLDEVMKTKIIIGCFVATVLLAAAMLIVEYKLR 551  
DB 495 P--QSTRSTKFTTIPVTDNSGI-PGIDVEMKTKIIIGCFVATVLLAAAMLIVEYKLR 551  
QY 552 KKHQRSTVTAARTVEIIQVDEDDIPAATSAATAAPSGVSGEGAVVLPFI-HDHIN-YNT 609  
DB 552 KKHQRNHAPTRTVEIINVDDEITGDTFM-----ESHLPMPAIEHLEHNLHNS 600  
QY 610 YKPAHGAHWTENSGLNSLHPTVTITSEPIYIQTHTGKVKQETQI 653  
DB 601 YKSPENHTTNTATI-NSIH---SSVHEPLLRMNSKDNVQETQI 640

RESULT 3

US-09-482-273-105  
; Sequence 105, Application US/09482273  
; Patent No. 6534631  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 71 Human Secreted Proteins  
; FILE REFERENCE: P2030P1  
; CURRENT APPLICATION NUMBER: US/09/482, 273  
; CURRENT FILING DATE: 2000-01-13  
; EARLIER APPLICATION NUMBER: PCT/US99/15849  
; EARLIER FILING DATE: 1999-07-14  
; EARLIER APPLICATION NUMBER: 60/092, 921  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092, 922  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092, 956  
; EARLIER FILING DATE: 1998-07-15  
; NUMBER OF SEQ ID NOS: 267  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 105  
; LENGTH: 302  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-482-273-105

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b	42	AVTSAAGGGSPATSCPACVCSNCQASRVICTRRDLAEVPASIPVNTRYLNLQENGIOVI	101				
y	91	QAOTFRLLHLEVLQIGRNSIRQIEVGAWNGLASINTLELFNNMTVTVPISGAPEVYLSKL	150				
b	102	RTDTFKRLRLELITQSKNLVRKIEVGAWNGLPSTNLELFNNRITVTVPQAFVYLSKL	161				
y	151	ELWLRNNPIESIPSYAFNRPVPSLWRLDGLGELKKLEYISGAPEGLFNKLYNLNGVCKND	210				
b	162	ELWLRNNPIESIPSYAFNRPVPSLWRLDGLGELKKLEYISEAAPEGLVNLRYNLNGVCKND	221				
y	211	MPNLTPLAVGLEELMSGNHPEPTRPCSGFCLSSLKLVWNSQVSLIENAPFDGLASIVE	270				
b	222	IPNLTALVRLEELSNGRDLIRPGSFOGLTSRKLWLMHQAQVATIERNAFDDLKSLSE	281				
y	271	INTLAHNNLSSLPDHLFTPL	289				
b	282	LAUSHNHLMSPDHLFTPL	300				

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RESULT 4
IS-09-482-273-174
Sequence 174, Application US/09482273
Patent No. 6534631
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OP INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
CURRENT APPLICATION NUMBER: US/09/482,273
CURRENT FILING DATE: 2000-01-13
EARLIER APPLICATION NUMBER: PCT/US99/15849
EARLIER FILING DATE: 1999-07-14
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,922
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,956
EARLIER FILING DATE: 1998-07-15
NUMBER OF SEQ ID NOS: 267
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 174
LENGTH: 224
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (76)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
IS-09-482-273-174

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Query Match	20.9%	Score 720.5;	DB 4;	Length 224;
Best Local Similarity	74.3%	Pred. No. 9.7e-60;		
Matches 136;	Conservative 19;	Mismatches 25;	Indels 3;	Gaps 1
2y	34	AIATAASAG---	PONCPSVCS	CSNQPSKVVCTRRGLSEVPQGISNTRYINLMENNIOI 90
db	42	AVTSAAGGSGP	ATSCPVACSC	SNQASVICTRXLAEVPASIPVNTRYINLQNGIOVI 101
2y	91	QADTPRHLEH	LEVLQIGNS	TRQTEVGAFNGLASLNTLELFDNWLTVIPSGAPEYLSUKR 150
db	102	RTDTPKHLH	LEITLQSL	KNLVKRTVEGAFNGLSLNTLELFDNRLTTPVQAPEYLSUKR 161
2y	151	ELWLRNNPIS	IPSYAFNRVPS	LARLDLGELEKLEVIISGAFGLFNLKYNLGMCKND 210
db	162	ELWLRNNPIS	IPSYAFNRVPS	LARLDLGELEKRLLEYISEAAFSGLVNLYRINLGMCKND 221
2y	211	MFN	213	

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Query Match      12.7%; Score 438; DB 3; Length 1091;
Best Local Similarity 21.0%; Pred.No. 5.5e-32;
Matches 196; Conservative 110; Mismatches 275; Indels 354; Gaps 26;

QY    28 VVILCAAIAAASAGPQ-----NCPSPVCSCSNQFVKVCTRRGLSEVPQGIENSTRYLNL 82
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB    20 LWWLLLLLQWPSAGAQAAPCAACTCAG--NSLDCCSGRGLATLPRLDPSWTRSLNL 77
       :|:|:| | | | | | | | | | | | | | | | | | | | | | | | |
QY    83 M-----83

DB    78 SYNRLSEIDSAAPEDTLWLQEVYLSNELTAIPSLGTASIGVVSLFLQHKNKILSVDSQL 137
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY    84 -----83

DB    138 KSYLSLEVLDSNNITEIRSCPNGLRIRELNLAASRIISLESAGFDGSRSLTTLRL 197
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY    84 -----ENNITMTQADTFPHLHLEVLOLGRRNSTRIQIEVGAF 119
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB    198 SKNRITQLPVKAFLPRLTQLDLNENRILIEGLTFQGLDLSLEVLRLQRNISRLLTGAF 257
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY    120 NGLASLNTLLEFPNMLTWPISGAPEYISKURELMRNPIESTPS-----YA 166
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB    258 WGLSKHVEHLFELNSLVENVSGSIYGCTALHQHLSSNNISIRIQDCGWSECFQKLHELIUS 317
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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167 FNRVPSLWRLDLGELKKL-----EYISGAFGLFNKLYLNLCMKNIKDMENLTP 216  
318 FNNLTRLDESLAELSSLSILRLSHENAIISHIAEGAFGLKSLRLVD----- 363  
217 LVGLLEELMSGNHPEIRPGFPHGLSSLLKLMWNMSQVSLIERNAFDGLASLVLELNAHN 276  
364 ---LDHNEISGT---IEDTSGAFTGLDNLSKLTLPNGNKSIVAKKAFSGLSLEHNLNGEN 418  
277 NLSSLPDLFTPLRYLVBLHLHHPNWCDDILMLAWLR----- 316  
419 AIRSVQDFAFKAKNKLKELYISSSESLCDCLKWLPPALMGRMLQAFVATCAHPESLKG 478  
317 ---EYITNSTC-----CGR-----CHA-----PM----- 333  
479 QGIFSVLPDSFVCDPPKQIITQPETTMVVGKDIRFTCSAASSSPMTFAWKKNVEV 538  
334 ---HMRG-----RYLVEVDQAFQC----- 350  
539 LANADMENPAHVRAQDGEVMEYTTILHLRHVTFGHEGRYQCIITNHPGSTYSHKARLTVN 598  
351 SAPPFMDAPRLNISEGRMAELKCRTP--PMSSVKLLPNGTVLSHASRHPRIISVINDGT 408  
599 VLPSTFKIPHDIAITGTGTARECAATGHPNPQIAWKQDGTDP--AARERRMHVMFDDDD 657  
409 LNF-SHVLSSDGVVTCMVTVNAGKSNASAVLNSTAEINTSNYSF---FTTVTVETEI 464  
658 VPFTIDVKIDMGVYSCTAQNSAGSVSANATLV-----LETPLAVPLEDRVVTVGETVA 713  
465 SPEDTRKYKVPFTSTGVQP-----AYTSTTVLIQT 497  
714 FOCKATGSPTRITWLKGRPLSLTERHHFTPGNQLLVQNVIMDDAGRYTCENSLFGT 773  
498 TRVPQVAVPATDITDKMCTSLDEVKTKIIGCFVAVTLLAAAGLTVFYKLRKHQOR 557  
774 ERANQSLSLTPGCRKDTGVG-----IFTAVCSIVLSL--VWVCIIYQTKSBEY 827  
558 STVTAARTVETIIQVEDIPAAATSAATAAPSGVSGEAVLPTTHDHINVTYKPAHGAH 617  
828 SVTNTDETI---VPPDVPSYSSQGT-----LSDRQETVWRTEGGH-QANGHIESGVC 877  
618 WTENSLGNSLHETVTTISEPYIIQTHKD--KVQE 650  
878 LRDPSPFPEVDIHSITTCQPKCLKCVGTRPWXVTE 912

RESULT 6  
S-08-986-485-2  
Sequence 2, Application US/08986485  
Patent No. 6046030  
GENERAL INFORMATION:  
APPLICANT: WU, SHUJIAN  
APPLICANT: SWEET, RAYMOND  
APPLICANT: TRUNEH, ALEMSEGED  
TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: RATTNER & PRESTIA  
STREET: P.O. BOX 980  
CITY: VALLEY FORGE  
STATE: PA  
COUNTRY: USA  
ZIP: 19482  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/986,485  
FILING DATE: 08-DEC-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/059,448  
FILING DATE: 22-SEP-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: PRESTIA, PAUL F  
REGISTRATION NUMBER: 23,031  
REFERENCE/DOCKET NUMBER: GH-70264  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-407-0700  
TELEFAX: 610-407-0701  
TELEX: 946169  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1101 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-986-485-2  
Query Match 12.4%; Score 427.5; DB 3; Length 1101;  
Best Local Similarity 21.6%; Pred. No. 5.5e-31;  
Matches 194; Conservative 98; Mismatches 274; Indels 333; Gaps 28;  
QY 28 VWILCAAI-AAASAGRO-NCPSVCSCSNQ-----FSKVCTTRGLSEVPQGIPISTRYL 80  
DB 21 LMLLLRLLEPVTAAGPRAPCAACTCAGDPCTCAGESLDCGGRGLAALPGDLFSWTRSL 80  
QY 81 NLAMENNIMQIQADTFRHL-----HH----- 100  
DB 81 NLSYNKLAIEIDPAGFEDLPNLQEVYLNHNTAVASLGAGSSQVVALFLQQQNRSLDGS 140  
QY 101 -----LEVLOLGRNSTROI-----EVCAGFLA-SLNTL 128  
DB 141 QLKAVLSLDELNLNNTTEVNTVPHGPPIKEINLAGNRIGTLELGAFLGSLSSLT 200  
QY 129 ELFDNWLTVIPSGAFYLSKLKELMRLNPNPIESIPYAFNRVPSL--NRLLDGLK-- 183  
DB 201 RLSKNEITQLPVRAFK-LPRLTQOLDNENRIRLIGLTFQGLNSLEVLKLRNNISKLTD 259  
QY 184 -----LEY-----ISEGAFGLFNKLYLNLCMKNIK----- 209  
DB 260 GAFWGLSKMHVLHLEYDSLVYVNSGSLYGLTALHQLHLNNSNLSARIHRKGSFOCKLHEL 319  
QY 210 -----DMPNLTPLVGLBELEMSGNHPEIRPGSFHGLSSLK----- 245  
DB 320 VLSFNNLTRLDESLESLSSLSVLRLSHNSISHIABGAFKGLRSLRVLDLHNEISGTIE 379  
QY 246 -----KLWVNSQVSLIERNAFDGLASLVLELNAHNLSLPHDLFTPLRY 291  
DB 380 DTSGAFSGLEFGHSLKLTLPNGNKSIVAKKAFSGLSLEHNLNGNNAIRSVDFAFVKMK 439  
QY 292 LVLEHLHHPNWCDDILMLAWLRREYIPTNSTCCGR-----CHAPMHRGRYLVE 342  
DB 440 LKELHSSDSPLDCCLKWLPPWL-----IGRMLOAFVATCAHPESLKGQSIFS 489  
QY 343 VDOASFQCS----- 351  
DB 490 VPPEFVCDPLKQIITQPETTMVVGKDIRFTCSAASSSPMTFAWKKNRYLTNAD 549  
QY 352 -----APPI 355  
DB 550 MENFVHVHQAQGEVMEYTTILHLRQVTFGHEGRYQCVITNHPGSTYSHKARLTUNVLPSP 609  
QY 356 MDAPRLNISEGRMAELKCRTP--PMSSVKLLPNGTVLSHASRHPRIISVINDGTINF-S 412  
DB 610 TKTPHDTITRTTVARLECAATGHPNPQIAWKQDGTDP--AARERRMHVMFDDDDVFFIT 668  
QY 413 HVLLSDGVVTCMVTVNAGKSNASAVLNSTAEINTSNYSFPTTIVTETBISPDIT--- 469  
DB 669 DVKIDDAGVYSCTAQNSAGSVSANATLV-----LETPS-----LVVPLEDRVVSVGETVAL 720  
QY 470 -----TRKYKVPFTSTGVQPAVTTSTVLI---QTRVPEKQVAVPATDITDKQTSLODEV 522

721 QKATGNPPPRITWFKGDRPLSLTERHLLTPDNQLLVQNVAAEDAGRYTCBMSNTLGT 780  
523 MKTKIIII---QC-----FVAVTLAAAMLIVFYKLRKHQORSTVTAAR 564  
781 RAHSQSLVPAAGCRKDGTTGVTIAWSSIVLTSLVWVYIIYQTKKSEBYVTNDE 840  
565 TVEIIQVDEIPAAATSAATAA---PSGVSSEGAVALPTIHDHINTYKPAHGAHWTE 620  
841 TV---VPPDVSYSLSQGLSDROETVVRTEG---PQANGHIESNGVCPDRASHPE 892

RESULT 7  
US-09-131-648-2  
Sequence 2, Application US/09131648  
Patent No. 6168920  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Yue, Henry  
APPLICANT: Corley, Neil C.  
APPLICANT: Guegler, Karl J.  
APPLICANT: Patterson, Chandra  
TITLE OF INVENTION: EXTRACELLULAR ADHESIVE PROTEINS  
FILE REFERENCE: PF-0576 US  
CURRENT APPLICATION NUMBER: US/09/131.648  
CURRENT FILING DATE: 1998-08-10  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: PERL Program  
SEQ ID NO 2  
LENGTH: 708  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE: -  
OTHER INFORMATION: 2687731

US-09-131-648-2  
Query Match 11.8%; Score 405.5; DB 3; Length 708;  
Best Local Similarity 25.4%; Pred. No. 3.2e-29;  
Matches 145; Conservative 85; Mismatches 226; Indels 115; Gaps 16;

45 KCPGVCSCS-----NQFSKAVCTRGSLSEVPOGIPSNTRYNLNMENNIOIAD 93  
28 DCPRLCTCEIRPWPTRPSIYMEASTVDCNDGLITPAPLANTQILLQTNNAIKIYS 87  
94 TFRHLHLVLQGRNSIRQIEVGAFLNGLASLNTLELFDNWLVIPIGSAFEYLSKRLWL 153  
88 TDFPV-NLTGLDLSQNNLSVTNNVKKMPQALLSVLEENKLTPELPEKLSLSLNOELY 146  
154 LRNNPIESIPSAFNRVPSLRMLDLGELKLEYISGAFGLFNKLYNLG---MCNIKD 210  
147 INHLLSTISPCAFIHLNLRHLNS-NRLQMINRWFDPALNLEILMIGENPIIRKD 205  
211 MP-----NLT-----PLVGLLELE----- 224  
206 MNFKPLNLRSLVIAGINLTIPEONALVGLNLESISFYDNRLIKVPHVALQKVNLKFL 265  
225 -MSGNHFFEIRPGSFHGLSSLKKLWV-----MNSQVSLI 257  
266 DLNRKPNIRIRGDFSNMLHLKELGNNMPELLISDLSVDNLDPLRKIEATNPRLSYI 325  
258 EBNAPDGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHNPWNCDDILWL---AWW 314  
326 HENAFRLPKLESMLNSALSALVHGHTIESLPNLKETSISNPIRCDVCIRWNNMKN 385  
315 LREYIPTNSTCCGRCHAPMRGRYLYEVD-QASFOCSAPFIM--DAPRLNISEGRMAE 371  
386 IRFMEPDSLFCVD-----PPEFGQNVQRVHPRDWMWICLPILAPESPPNINVEAGSYV 441  
372 LKCR--TFPMSSVKWLLPNGTVLSHASHRPRISVLNDGTILNFSHLLSDTGVTGMVTV 429  
442 FICRATAPQPEIYITSGQKLPNTLTDKPYVHSEGTLDINGVTEKEGGLYTCIATNL 501  
430 AGNSNASHYLVNVAELNNTSNSEFTTIVTTTETISSEDITRKYK---PVFTSTGTQPA 486

502 VGADLKSVMIKVDGSPPDNNGS-----LNKIRDIQANSVLVSWKASSKILKSSVKWTAF 557  
487 YTTSTTVLIQTTVPKQVAV-----PSTD 510  
558 VKTENSAAQSAKIPSDVKVYNLTHLPSTTE 588

RESULT 8  
US-09-063-950-2  
Sequence 2, Application US/09063950C  
Patent No. 6225085  
GENERAL INFORMATION:  
APPLICANT: Holtzman, Douglas A.  
TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
TITLE OF INVENTION: THEREFOR  
FILE REFERENCE: MEI-019  
CURRENT APPLICATION NUMBER: US/09/063.950C  
CURRENT FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 673  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-063-950-2  
Query Match 11.7%; Score 402.5; DB 3; Length 673;  
Best Local Similarity 25.6%; Pred. No. 5.6e-29;  
Matches 174; Conservative 96; Mismatches 265; Indels 145; Gaps 26;

17 ILDPFVYLTAQWMLCAIAAASAGPNCPSVCSCSNQPSKVCVCTRRRGLSEVPQIPSN 76  
7 LLLPILL-----LALGPGVQGPCSCQS-QPTVFCTARQGTTPRDPD 53  
77 TRYLNMMNNIOMIQADTPRHLHLHLVLQGRNSIRQIEVGAFLNGLASLNTLELFDNWL 136  
54 TVGLYVFEENGITMLDAGSFAGLQGLDLSQNIASLPSGVFQPLANLNLDTANRLH 113  
137 VIP-----GAFVLSKRLRLMNNNPTEISPSYAFNRVPS 172  
114 BITNETFRGLRLERLYLGNRRIRHIQPGAFDTLDRLLEKLQDNELRALPPL---RLPR 170  
173 LMRDLGELKLEYISGAFGLFNKLYNLGMNCKMPN--LTPVLVGLLEEMSGNHF 230  
171 LLLDLSH-NSLLALEPGILD-TANVEALRLAGLQQLDEGLFSRLNTHLDLVDNQL 228  
231 PEIRPGSFHGLSSLKKLWV-NQSVLSIERNAPDGLASLVELNLAHNNLSLPHD---LF 286  
229 ERV-PPVIRGLRGLRLAGNTRIAQLRPEDLAGLAALQELDVNSLQALPDGLSLF 287  
287 TPLRYLVELHLHNPWNCDDILMLAWLRE-VIPTNSTCCGRCHAPMRGRYLYEVDQ 345  
288 PRLRLAAA---RNPFCVCPLSMFGPVRHESHVTLASPEETRCHPPPKNAGRLLLELDY 344  
346 ASFOCSA-----PFTMDAPRLNISEGRMA-----ELKCRTPPMSSVKWLLPNG 389  
345 ADFGCPATTTATVTPTRPVVRBPTALSSSLAPTATPAPATEAPSPPTAPTPTGVP--- 402  
330 TVLSHASHRPRISVLNDGT--LNFSHVLL-----SDTGVY----- 422  
403 ---VPQPCDPSTCLNGTCHLGRHHLACLCEGFTGLYCESQMGCTRPSPTVTPRP 460  
423 ---TCMVTVNAGNS---NASAYLVNVAELNNTSNSEFTT-----TVTVETTESPED 468  
461 PRSLTGLIEPVSPSLRVLQYLGSSVQLRSRLITRYNLNSGDPKELVTLRLPASLAEY 520  
469 TTRKYPVPTTSTGTQAYTTTTLVLTTRVPK-QVAVPATDTDDNQTSLEVMKTK 527  
521 TVTQLRPNATTSVCMVP-----LGPGRVPRGEBCEAHPTPAVHSHAPVTCARE 571  
528 -----IIGCFVAVTLAAAMLIIVFYKLRKHQORSTVTAAR-----TVEIIQ 570  
572 GWLPLLIAPALAAVLLAALAAVGAAYCVR--GRAMAAQDKQGVGPGAGPLEGK 628

571 VD-EDIPAATSAATAAPSG 589  
629 VLEPGPKATGGEALPSG 648

SUIT 9

-09-996-243-52  
Sequence 52, Application US/09996243  
Patent No. 6478825

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bolstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhangs, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

CURRENT APPLICATION NUMBER: US/09/996,243

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/066311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026

PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033  
PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
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PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
PRIOR FILING DATE: 1998-06-10  
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PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088861  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22



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Qy 17 ILPLFVYLPAQWILCAAIADAAAGAPQNCPSVCSGCSNQPSKVVCTRGLSEVPGQIPSN 76
      :|||:
Db 7 LLLPLLLL-----LALFGVQGFSGGQCS-QPTVFCTARQCTTVPRDVPDP 53
      :|||:
Qy 77 TRYLNLMENNIQMIQADTFRHLHLEVLQLGNSIRQIEVGAENGLASNTLUELPDNIUT 136
      :|||:

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Query Match 11.6%; Score 398.5; DB 3; Length 1525;  
Best Local Similarity 24.7%; Pred. No. 5.1e-28;  
Matches 14; Conservative 56; Mismatches 178; Indels 207; Gaps 15;  
35 IAAAGAGPQNCPSVCSCSNQFSKVCVTRGLSEVQGIPTSNTRYLNLMNNNIQIQADT 94

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b 17 LAIINKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74
y 95 FRHLHLEVLQGRNSIROIEVGAFFNGLASINTLSELDNWLTVIPSGAFYLSKLRBLWL 154
b 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLRNHNHQLQFPELLFLGTAKYLRDL 134
y 155 RNNPIBSISYAFNRVPSLMRLDLGELKKLEYISEGAFEGLENKYLNMCMNI----- 208
b 135 SENQIOAIKPKAFRGAVDIKNLQL-DYNOISCIEDGAFRALDLVLTNNNNITRLSVA 193
y 209 --KDMPNL-----TPVLGL----- 220
c 194 SFNHMPKLTFRHLHNNLYCDCHLAWLSDMLKRPVRVGLYTCQMGPSHLRGHNVAEVOXR 253
y 221 -----BELEMSG 227
c 254 EFVCSDEEBGHOSFMAPSCSVLHCPAACTCSNNIVDCRGKGLTEIPTNLPEITITIRLEQ 313
y 228 NHPPETRPGSEHGLSSLLKLMWNSQVSLIERNAFDGLASIVELNLAHNNLSSLP----- 282
c 314 NTIKVIPPQAFSPYKLRIDLSNQISLAPDAFQGLRSLNSLVLYGNKKTTELPSLFE 373
y 283 -----HDL-----FTPLRYLVELHLHH 299
b 374 GLFSLQLLLNANKINCLRVDAFQDLHNLNLSLDYDNKLOTIAKGFSPRLAIQTMHLAQ 433
y 300 NPWNCDCDILWLAWLREYIPTN--STCCGRCHAPMHRGRVLYVEVDQASFOCS----- 351
b 434 NPPICDCHLKWLA-----DYLHNPITSGARCTSPRLANKRIGQIKSKKFCSTEDYR 489
y 352 APFIMDAPRDEINISGRMAELKCRTP-----PMSSVKWLLPNG--TV 391
b 490 SKLSGBCFADLACPS-----KRCBGTVDSCNQKLNKIPEHIQYTAELRLNNEFTV 543
y 392 LSHASRHRISVLNDCGLNFSVLLSD-----TGYYTCWNTN 428
b 544 LEATGIFKLPQLR--KINFNNKITDIEGAFEGASGVNEILLTS 587

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RESULT 11
S-09-540-245A-2
Sequence 2, Application US/09540245A
Patent No. 6270984
GENERAL INFORMATION:
APPLICANT: Goodman, Corey
APPLICANT: Kid, Thomas
APPLICANT: Brosse, Katja
APPLICANT: Tessier-Lavigne, Marc
TITLE OF INVENTION: Modulating Robo: Ligand Interactions
FILE REFERENCE: B98-031-3
CURRENT APPLICATION NUMBER: US/09/540,245A
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 60/065,544
PRIOR FILING DATE: 1997-11-14
PRIOR APPLICATION NUMBER: 60/081,057
PRIOR FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1525
TYPE: PRT
ORGANISM: human
S-09-540-245A-2

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Query Match 11.6%; Score 398.5; DB 3; Length 1525;
Best Local Similarity 24.7%; Pred. No. 5.1e-28;
Matches 145; Conservative 56; Mismatches 178; Indels 207; Gaps 15;
y 35 IAAASAGPQNCPSVCSNQPSKVCTRGISEVPOGIPSNTRYLNLMNNIOMIADT 94
b 17 LAIINKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74

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Qy 95 FRHLHLEVLQGRNSIROIEVGAFFNGLASINTLSELDNWLTVIPSGAFYLSKLRBLWL 154
Db 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLRNHNHQLQFPELLFLGTAKYLRDL 134
Qy 155 RNNPIBSISYAFNRVPSLMRLDLGELKKLEYISEGAFEGLENKYLNMCMNI----- 208
Db 135 SENQIOAIKPKAFRGAVDIKNLQL-DYNOISCIEDGAFRALDLVLTNNNNITRLSVA 193
Qy 209 --KDMPNL-----TPVLGL----- 220
Db 194 SFNHMPKLTFRHLHNNLYCDCHLAWLSDMLKRPVRVGLYTCQMGPSHLRGHNVAEVOXR 253
Qy 221 -----BELEMSG 227
Db 254 EFVCSDEEBGHOSFMAPSCSVLHCPAACTCSNNIVDCRGKGLTEIPTNLPEITITIRLEQ 313
Qy 228 NHPPETRPGSEHGLSSLLKLMWNSQVSLIERNAFDGLASIVELNLAHNNLSSLP----- 282
Db 314 NTIKVIPPQAFSPYKLRIDLSNQISLAPDAFQGLRSLNSLVLYGNKKTTELPSLFE 373
Qy 283 -----HDL-----FTPLRYLVELHLHH 299
Db 374 GLFSLQLLLNANKINCLRVDAFQDLHNLNLSLDYDNKLOTIAKGFSPRLAIQTMHLAQ 433
Qy 300 NPWNCDCDILWLAWLREYIPTN--STCCGRCHAPMHRGRVLYVEVDQASFOCS----- 351
Db 434 NPPICDCHLKWLA-----DYLHNPITSGARCTSPRLANKRIGQIKSKKFCSTEDYR 489
Qy 352 APFIMDAPRDEINISGRMAELKCRTP-----PMSSVKWLLPNG--TV 391
Db 490 SKLSGBCFADLACPE-----KRCBGTVDSCNQKLNKIPEHIQYTAELRLNNEFTV 543
Qy 392 LSHASRHRISVLNDCGLNFSVLLSD-----TGYYTCWNTN 428
Db 544 LEATGIFKLPQLR--KINFNNKITDIEGAFEGASGVNEILLTS 587

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RESULT 12
US-09-540-153-2
Sequence 2, Application US/09540153
Patent No. 6270995
GENERAL INFORMATION:
APPLICANT: Goodman, Corey
APPLICANT: Kid, Thomas
APPLICANT: Brosse, Katja
APPLICANT: Tessier-Lavigne, Marc
TITLE OF INVENTION: Modulating Robo: Ligand Interactions
FILE REFERENCE: B98-031-3
CURRENT APPLICATION NUMBER: US/09/540,153
CURRENT FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/191,647
PRIOR FILING DATE: 1998-11-13
PRIOR APPLICATION NUMBER: 60/081,057
PRIOR FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1525
TYPE: PRT
ORGANISM: human
US-09-540-153-2

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Query Match 11.6%; Score 398.5; DB 3; Length 1525;
Best Local Similarity 24.7%; Pred. No. 5.1e-28;
Matches 145; Conservative 56; Mismatches 178; Indels 207; Gaps 15;
Qy 35 IAAASAGPQNCPSVCSNQPSKVCTRGISEVPOGIPSNTRYLNLMNNIOMIADT 94
Db 17 LAIINKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74
Qy 95 FRHLHLEVLQGRNSIROIEVGAFFNGLASINTLSELDNWLTVIPSGAFYLSKLRBLWL 154
Db 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLRNHNHQLQFPELLFLGTAKYLRDL 134

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155 RNPPIPSVAFNRVPVSLMRLDGLKLEYISEGAFEGFLNKLKYNLGMCMNI----- 208
135 SEHQIQIPKAPRGAVIDKNLQL-DYNGISCTEDGAFRALDLEVLITANNITLSVA 193
209 ---KMPNL-----TPVLGL----- 220
194 SFNHPKLRTRFLHNNLYCDCHLAWLSDWLRPRVGLYTQMGPSHLRGHNVAEQKR 253
221 -----ELEMSEN-----HFP-----EIR----- 234
254 EVCSDDEEHCQGFMAPSCSVLHCPACTCSNNIVDCRCGLTETPTNLPETITEIRLEQ 313
228 NHPPEIRPGFGLSLKLMVNNQSVLIERNAPDGLASLVELNLAHNNLSLP----- 282
314 NTIKVIPGAFSPYKLRRLDLSNNQISELAPDAFQGLASLNSLVLYGNKITELPKSLFE 373
283 -----HDL-----FTPLRYLVELHLHH 299
374 GLFSLQLLLNANKINCLRVDAFQDLHNNLLSLYDNKLOTAKGTFSPALRAIQTHLAAQ 433
300 NPMNCDIILWALWLEIYPTN--STCCGRCHAPMHMRGRYLVEVDQASFOCS----- 351
434 NPFICDCHLAWLA---DYLHTNPIETSGARCTSPRLANKRIGQIKSKKFRCSGTEDYR 489
352 APFINDAPRDLNISEGRMAELKCRTP-----ZKSSVKWLLPVG--TV 391
490 SKLSGDCDFADLACPE---KRCGTTVDCNQKLNKIPHIPOYTAEELRNNNEFTV 543
392 LSHASRHPRIISVLNDGTINFSHVLSD-----TGVTYCMVTN 428
544 LEATGIFKKLPOLR--XINFSNNKITIEBGAFEGASGVNEILLTS 587

RESULT 13
US-09-312-283C-396
; Sequence 396, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11060.1011c2
; CURRENT APPLICATION NUMBER: US/09/312.283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 396
; LENGTH: 1529
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-396

Query Match 11.4%; Score 392; DB 4; Length 1529;
Best Local Similarity 26.7%; Pred. No. 2,1e-27;
Matches 134; Conservative 46; Mismatches 157; Indels 164; Gaps 14;

31 LCAAAIAAASAGPQPCSVCSNOFSKVVCTRRGLSVPGIGPSNTRYLMNNTQMI 90
13 LALVLSILNKVAPHACPAQCSCG--STVDCGLAALRSVPNIPRNTERLDLNGNITRI 70
91 QADTRFHLHLEVLQGRNSRIQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYVLSKLR 150
71 TKYDFAGLEHLEVLQGMENKSTIERGAFQDLKELERLRNNLQJFPELLFLGTAKLY 130
151 ELWLRRNPPIESIPSVAFNRVPVSLMRLDGLKLEYISEGAFEGFLNKLKYNLGMCMNI-- 208
131 RDLSENQIQIPKAPRGAVIDKNLQL-DYNGISCTEDGAFRALDLEVLITANNITR 189

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209 ---KMPNL-----TPVLGL----- 220
190 LSVASFNNHPKLRTRFLHNNLYCDCHLAWLSDWLRORPRVGLYTQMGPSHLRGHNVAE 249
221 ---ELEMSEN-----HFP-----EIR----- 234
250 VQKREFVCVCHQGFMAPSCSVLHCPACTCSNNIVDCRCGLTETPTNLPETITEIRLEQ 309
235 -----PGSFHGLSLKLMVNNQSVLIERNAPDGLASLVELNLAHNNLSLP----- 282
310 NSIRVIPGAFSPYKLRRLDLSNNQISELAPDAFQGLASLNSLVLYGNKITELPKSLFE 369
283 -----HDL-----FTPLRYLVELHLHH 299
370 GLFSLQLLLNANKINCLRVDAFQDLHNNLLSLYDNKLOTAKGTFSPALRAIQTHLAAQ 429
300 NPMNCDIILWALWLEIYPTN--STCCGRCHAPMHMRGRYLVEVDQASFOCS--PFI 355
430 NPFICDCHLAWLA---DYLHTNPIETSGARCTSPRLANKRIGQIKSKKFRCSAKEQYF 485
356 MDAPRDL--NISEGRMAELKC 374
486 IPGTEDYRSKLSGDCDFADLAC 506

RESULT 14
US-09-188-930-305
; Sequence 305, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188.930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 305
; LENGTH: 649
; TYPE: PRT
; ORGANISM: Mouse
US-09-188-930-305

Query Match 11.4%; Score 391.5; DB 3; Length 649;
Best Local Similarity 24.3%; Pred. No. 5.8e-28;
Matches 164; Conservative 97; Mismatches 284; Indels 149; Gaps 23;

37 AAASAGPQPCSVCSNOFSKVVCTRRGLSEVPQIGPSN----- 76
22 APLSVVAKSCPSVCRCDAGF--IYCNDRSLTSIPVGIPEDATTLYLQNNQINNVGIPSDL 79
77 -----TRYINLMENNIMICADTFRHLHLEVLQGRNS 110
80 KNLKLVQRIYLYHNSLDEFPNLPKRYKVELHLOENNITTYDLSKIPYLEELHLDONS 139
111 IR-QIEVGAFNGLASLNTLELFDNMLTVIPSGAFYVLSKLRBLNRRNPPIESIPSVAFN 168
140 VSAVIESGAFDSNYLRLLFLSRNHLSTIFGGLPRTIEELR---LDNRRISTISSPSLH 196
169 RYPSLRLDLD--GELKKLEYISEGAFEGFLNKLKYNLGMCMNKDMP-NUTPLVGLHELEMS 226
197 GLTSLKRLVLDGNLMNNHGLGDKVFFNLVNLTELSENLSLTAAPVNL----- 244
227 GNHFFEIRPGSFHGLSLKLMVNNQSVLIERNAPDGLASLVELNLAHNNLSLPHDLF 286
245 -----PG-----TSURKLYLQDNHINRVPVAFSVLRQLYRLDMSNNLNLNLPQGIIF 291

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287 TPLRYLVHLHHPNWCDCDILMLAWLREYIPTNSTCCG-RCHAPMHRGRLVEVDQ 345
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
292 DDLDNITQLILRNPNWYCGCKKVRDMLQS-LPVKNVRGLMCQAEKVRGMAIKDLSA 350
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
346 ASFOCSAPPFMDA-----PRDLNISGRMAELKCRTPPMSSVKMLLPNGTVLSHRSR 398
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
351 ELFDCKDSGIVSTQITTAIPNTAYPAQGWPAVTPQPDINKPKLIKDKORTTGSPSRKT 410
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
399 PRISV--LNDGTLPNS-HVLLSDRGVYTCWTVNAGNSASAYLNVTAEINTSYFFT 455
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
411 ILITVKSVTPDTHISWRALPMTALRLSLK--LGHSPAFSGSITEITIVTGERSEYL--- 465
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
456 TVTVETTSISPDTRTKYKVPPTSTGQPAYTSTTVLIOTTRVPKQVAPADTTDKM 515
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
466 -----VTALEPESPRVCMVPMETSNLY---LPDETVCIEBTQAPLRMNPPT-TLNRE 516
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
516 QTSLEVMKTKI-----IIGCFVAVTLAAAMLIVFY-----KLRKHQ 556
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
517 QEK--EPYKNPMLPLAALIGGAVALVSIALALVCWYVHRNGLFSRNCAYSKGRRKOD 574
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
557 RSTVTAARTVEIIQVDED-----IPAATSAATAAPSGVSGEGAVVLTPIHDHINYTKP 612
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
575 YAEAGTKKONSILRETSFQMLP-----ISNE-----PISKEEFVIHTIPP 616
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
613 AHGAHWIENSLGNS 626
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
617 PNGMNLKNNLSES 630
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 15
3-09-312-283C-305
Sequence 305, Application US/09312283C
Patent No. 6573095
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Marison, James G.
APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated from Skin Cells
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 11000.1011C2
CURRENT APPLICATION NUMBER: US/09/312,283C
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 425
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 305
LENGTH: 649
TYPE: PRT
ORGANISM: Mouse
3-09-312-283C-305

Query Match 11.4%; Score 391.5; DB 4; Length 649;
Best Local Similarity 24.3%; Pred. No. 5.8e-28;
Matches 164; Conservative 97; Mismatches 264; Indels 149; Gaps 23;

37 AAASAGPQPCSVCSNQFSKVCVTRRGLESEVPQIPSN----- 76
22 APLSVVAKSCPSVCRCADAG--IYCNDRSLTSPVGPEDATTLVQNNQINNVGIPSDL 79
77 -----TRYALMENNIIQADTFRLHLEVLQLGNS 110
80 KMLLVQRIYLYVNSLDEFFNPLPKYVRELHLQENHITITVYDSLKIPYEEHLDDNS 139
111 IR--QIEVGAFNGLASINTLELFDNLWTVIPSGAFEYLSKLRELMRNNTPIESYAPN 168
140 VSAVSEEGAFRDSNYLRLLFLSRNHLSTIFGGLPRTTEELR---LDNRISTISSPSLH 196
169 RYPSLMRLDL--GELKKLEVISSEGAEGFLPNLYLNLGHCNKDMP-NLTPVLGLEELEM 226
197 GLTSLKRLVLDGNLNNHGLGDKVFNLVNLVTELSLVNSLTAAPVNL----- 244
```

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227 GNHPFEIRPGSFHGLSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNRLSSLPDLF 286
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
245 -----PG-----TSURKUYLQDNHINRVPFPAFVYLRQLYTLDNSNNLSNLPQGI 291
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
287 TPLRYLVHLHHPNWCDCDILMLAWLREYIPTNSTCCG-RCHAPMHRGRLVEVDQ 345
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
292 DDLDNITQLILRNPNWYCGCKKVRDMLQS-LPVKNVRGLMCQAEKVRGMAIKDLSA 350
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
346 ASFOCSAPPFMDA-----PRDLNISGRMAELKCRTPPMSSVKMLLPNGTVLSHRSR 398
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
351 ELFDCKDSGIVSTQITTAIPNTAYPAQGWPAVTPQPDINKPKLIKDKORTTGSPSRKT 410
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
399 PRISV--LNDGTLPNS-HVLLSDRGVYTCWTVNAGNSASAYLNVTAEINTSYFFT 455
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
411 ILITVKSVTPDTHISWRALPMTALRLSLK--LGHSPAFSGSITEITIVTGERSEYL--- 465
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
456 TVTVETTSISPDTRTKYKVPPTSTGQPAYTSTTVLIOTTRVPKQVAPADTTDKM 515
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
466 -----VTALEPESPRVCMVPMETSNLY---LPDETVCIEBTQAPLRMNPPT-TLNRE 516
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
516 QTSLEVMKTKI-----IIGCFVAVTLAAAMLIVFY-----KLRKHQ 556
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
517 QEK--EPYKNPMLPLAALIGGAVALVSIALALVCWYVHRNGLFSRNCAYSKGRRKOD 574
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
557 RSTVTAARTVEIIQVDED-----IPAATSAATAAPSGVSGEGAVVLTPIHDHINYTKP 612
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
575 YAEAGTKKONSILRETSFQMLP-----ISNE-----PISKEEFVIHTIPP 616
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
613 AHGAHWIENSLGNS 626
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
617 PNGMNLKNNLSES 630
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 16
US-09-182-024A-2
Sequence 2, Application US/09182024A
Patent No. 6342370
GENERAL INFORMATION:
APPLICANT: Connolly, Timothy
APPLICANT: Rajput, Bhanu
TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding
TITLE OF INVENTION: Same
FILE REFERENCE: 640100-271
CURRENT APPLICATION NUMBER: US/09/182,024A
CURRENT FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/063,946
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/096,420
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
TYPE: PRT
ORGANISM: Homo sapiens
US-09-182-024A-2

Query Match 11.4%; Score 391; DB 4; Length 1523;
Best Local Similarity 24.3%; Pred. No. 2.6e-27;
Matches 137; Conservative 58; Mismatches 169; Indels 200; Gaps 14;

31 LCAATAAASAGPQ-NCPSVCSNQFSKVCVTRRGLESEVPQIPSNTRYLNLMENNIIQM 89
18 LALALASVLSGPPAVACPKCTCS--AASVDCHGLGLRAVPRGIPRRAERLDLDRNNITR 75
90 IQADTFRLHLEVLQLGNSIRQIEVGAFNGLASINTLELFDNLWTVIPSGAFEYLSKL 149
76 ITKMDPAGLKNLRVLEHDNQSVIERGAFQDLKOLERLNKNKQLQVLPPELLFQSTPKL 135
150 RELMLRNPIBISPYAVNRVPSLMRLDGLKKLEYISEGAFGLFNLYKLYNLGWCMI- 208
136 TRDLISENQIQIPKPRFGLTGVKNLQL-DNNHISCIEDGAFRALRDLLEILTNNNIS 194
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209 -----KMPNLTPL-----VG----- 219  
195 RILWTSFEMPKIRTLRHSNHYCDHLAWUSDWLRQRRVTGQFTLCMAPVHLRGFVA 254  
220 ----- 219  
255 DVQKVEYCAPHSEPPSCNANSISCPSPCTCSNNIVDCRGKGLMBIPANLPEGIVEIRL 314  
220 -----LELEMSGNHPEIRPGSPHGLSSIKLWVNSQVSLIERN 261  
315 EQNSIKAIPAGAFQYKRLKRIDISKNOISDIADAPQGLKSTVLSVLGNKITEAKGL 374  
262 FDGLASLV-----ELMLAHNLSLPHDLFTPLRYLVELHL 297  
375 FDGLVLSQLLLNANKINCLRVYTFQDLQNLNLSLYDNKLTQISKGLFAPLQSIQTLHL 434  
298 HNPWNCDDILMLAWLRYIPTN--STCCGRCHAPMHRGRLYVEVDQAFQCS---- 351  
435 AQNFVCDCHLKWLA----DYLDNPIETSGARCSPPRLANKRISQIKKXKFCRSGSD 490  
352 --APPIMDAPDLNISGRWABLKCRTPPMSSVKMLLPNGTIVL-----SHASH 398  
491 YRSFSECFMDLVCPE-----KCR-----ESTIVDCSNQKLRIPSHLPEY 533  
399 PRISVNDGTINFSHVLSDTGVY 422  
534 VTDRLNDNEVS-----VLEATGIF 553  
  
RESULT 17  
US-09-191-647-7  
; Sequence 7, Application US/09191647  
; Patent No. 6046015  
; GENERAL INFORMATION:  
; APPLICANT: Goodman, Corey  
; APPLICANT: Brose, Katja  
; APPLICANT: Tessier-Lavigne, Marc  
; TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
; FILE REFERENCE: B98-031-3  
; CURRENT APPLICATION NUMBER: US/09/191,647  
; CURRENT FILING DATE: 1998-11-13  
; EARLIER APPLICATION NUMBER: 60/065,544  
; EARLIER FILING DATE: 1997-11-14  
; EARLIER APPLICATION NUMBER: 60/081,057  
; EARLIER FILING DATE: 1998-04-07  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1480  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-191-647-7  
  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
  
QY 46 CPVCSNQSFKVCTRRGLSEVPGQIPSNTRYLNLMENNIOIADTFRHLHLEVLQ 105  
DB 73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKRLMQ 130  
  
QY 106 LGRNSIROIEVCAFNGLASMTLEFDNWLTVIPSGAFEYLSKRLRLNPNIESIPSY 165  
DB 131 LTDNQIHTIERNFQDLVSLERLDSNNVITTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
  
QY 166 AFNRVPSLRDLGELKKLEYISEGAFGLNLYLNLG----- 204  
DB 191 AFKGLVELLITLNN--NNLTSLPHNIFGGLRALRLSDNFFACDCHLSWLSRFLRSAT 249  
  
QY 205 -----MC-----NIKD----- 210  
DB 250 RLAPYTRCOSPSQLKGQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRADGIVDCR 309  
  
QY 46 CPVCSNQSFKVCTRRGLSEVPGQIPSNTRYLNLMENNIOIADTFRHLHLEVLQ 105  
DB 73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKRLMQ 130  
  
QY 106 LGRNSIROIEVCAFNGLASMTLEFDNWLTVIPSGAFEYLSKRLRLNPNIESIPSY 165  
DB 131 LTDNQIHTIERNFQDLVSLERLDSNNVITTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
  
QY 166 AFNRVPSLRDLGELKKLEYISEGAFGLNLYLNLG----- 204  
DB 191 AFKGLVELLITLNN--NNLTSLPHNIFGGLRALRLSDNFFACDCHLSWLSRFLRSAT 249  
  
QY 205 -----MC-----NIKD----- 210  
DB 250 RLAPYTRCOSPSQLKGQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRADGIVDCR 309

211 -----MPNLTPLVGLBE----- 222  
310 EKSLSVPTPLPDDTTDVRLEQNFTLPPKSFSSPRRLRIDLSNNNISRIAHDAISGL 369  
223 -----LEMSGNHPEIRPGSPHGLSSIKLWVNSQVSLIERNAPDGLASIVELNLAHN 277  
370 KQLTTLVLYGNKIDLPSPGVFKGLSRLLLNANEISCIRKDAFRLDLSLSLYDNN 429  
278 LSSLPHDLFTPLRYLVELHLHNPWNCDDILMLAWLRYIPTN--STCCGRCHAPMHR 335  
430 IQSLANGITFAMKSMKTVHLAKNFFICDCNLRWLA----DYLHKNPIETSGARCSPEKM 485  
336 RGRYLVEVDQAFQCS 351  
486 HRRRIESLRBEKFKCS 501  
  
RESULT 18  
US-09-540-245A-7  
; Sequence 7, Application US/09540245A  
; Patent No. 6270984  
; GENERAL INFORMATION:  
; APPLICANT: Goodman, Corey  
; APPLICANT: Kid, Thomas  
; APPLICANT: Brose, Katja  
; APPLICANT: Tessier-Lavigne, Marc  
; TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
; FILE REFERENCE: B98-031-3  
; CURRENT APPLICATION NUMBER: US/09/540,245A  
; CURRENT FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 60/065,544  
; PRIOR FILING DATE: 1997-11-14  
; PRIOR APPLICATION NUMBER: 60/081,057  
; PRIOR FILING DATE: 1998-04-07  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1480  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-540-245A-7  
  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
  
QY 46 CPVCSNQSFKVCTRRGLSEVPGQIPSNTRYLNLMENNIOIADTFRHLHLEVLQ 105  
DB 73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKRLMQ 130  
  
QY 106 LGRNSIROIEVCAFNGLASMTLEFDNWLTVIPSGAFEYLSKRLRLNPNIESIPSY 165  
DB 131 LTDNQIHTIERNFQDLVSLERLDSNNVITTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
  
QY 166 AFNRVPSLRDLGELKKLEYISEGAFGLNLYLNLG----- 204  
DB 191 AFKGLVELLITLNN--NNLTSLPHNIFGGLRALRLSDNPPACDCHLSWLSRFLRSAT 249  
  
QY 205 -----MC-----NIKD----- 210  
DB 250 RLAPYTRCOSPSQLKGQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRADGIVDCR 309  
  
QY 211 -----MPNLTPLVGLBE----- 222  
310 EKSLSVPTPLPDDTTDVRLEQNFTLPPKSFSSPRRLRIDLSNNNISRIAHDAISGL 369  
223 -----LEMSGNHPEIRPGSPHGLSSIKLWVNSQVSLIERNAPDGLASIVELNLAHN 277  
370 KQLTTLVLYGNKIDLPSPGVFKGLSRLLLNANEISCIRKDAFRLDLSLSLYDNN 429  
278 LSSLPHDLFTPLRYLVELHLHNPWNCDDILMLAWLRYIPTN--STCCGRCHAPMHR 335

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b 430 IQSLANGTTDAMKSMKTVHLAKNPFICDQNRWLA-----DYLHKNP1ETSGARCESPKRM 485
y 336 RGRYLVEVDQASFOCS 351
b 486 HRRRIESLREEKFKCS 501

RESULT 19
S-09-540-153-7
Sequence 7, Application US/09540153
Patent No. 6270995
GENERAL INFORMATION:
APPLICANT: Goodman, Corey
APPLICANT: Kid, Thomas
APPLICANT: Brosse, Katja
APPLICANT: Teessier-Lavigne, Marc
TITLE OF INVENTION: Modulating Robo: Ligand Interactions
FILE REFERENCES: B98-031-3
CURRENT APPLICATION NUMBER: US/09/540,153
CURRENT FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/191,647
PRIOR FILING DATE: 1998-11-13
PRIOR APPLICATION NUMBER: 60/081,057
PRIOR FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 1480
TYPE: PRT
ORGANISM: Drosophila melanogaster
S-09-540-153-7

Query Match 10.3%; Score 355.5; DB 3; Length 1480;
Best Local Similarity 25.0%; Pred. No. 5.5e-24;
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;

y 46 CPVSCSCNQFSKVCTRGSLVPGIPSNTRYLNLMENN1QM1QADTFRHLHLEVLQ 105
b 73 CPVSCCTG--LNVDCSHRG1TSVPKISADVERLELQGNNTVIYETDFQRLTKRLMLQ 130
y 106 LGRNSIRQIEVGAFNGLASLNTLELFDNLTIPSGAFYLSKRLMLRNNPIESIPSY 165
b 131 LTDNQHTIERNFODLVSLERLIDSNVITVGRVFKGAQSLSLQLDNNQITCLDEH 190
y 166 AFNRVPSLRDLGELKXLEYISEGAPGELNKLXNLG----- 204
b 191 AFKGLVELETLTNN--NNLTSUPHENIFGGLGRRLRUSDNPFACDCHLSMLSRFLRSAT 249
y 205 -----MC-----N1KD----- 210
b 250 RLAPYTRCQSPSQLKQNVADLHQEFKGLTEHAPMECGAENSCPHPCADGIVDCR 309
y 211 -----MPLTPIVGLER----- 222
b 310 EKSLTSVPVTLPTDDTVLRLEQNFIETELPKFSFRRRLRIDLGNNNISRIADALSGL 369
y 223 -----LEMSNHPPEIRPGSFGELSSLLKLMWNOSVLSIERNAPDGLASIVELNANN 277
b 370 KQTLTVLVGNKIDLPISGFGKLSRLILLANNEISCIRDAFDLHSLSLSDYNN 429
y 278 LSSLPHDLFTPLRYLVHLLHNNPNWNCDDILWLAWLREY1PTX--STCCGRCCHAPMEM 335
b 430 IQSLANGTTDAMKSMKTVHLAKNPFICDQNRWLA-----DYLHKNP1ETSGARCESPKRM 485

y 336 RGRYLVEVDQASFOCS 351
b 486 HRRRIESLREEKFKCS 501

GENERAL INFORMATION:
Sequence 2, Application PC/TUS9109055
CT-US91-09055-2

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APPLICANT: Rothberg, Jonathan Marc and Artavanis-Tsakonas, Spyridon
TITLE OF INVENTION: Purified SLIT protein and Sequence Elements Thereof
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yale University
ADDRESSEE: Office of Cooperative Research
STREET: 246 Church Street
STREET: Suite 401
CITY: New Haven
STATE: Connecticut
COUNTRY: USA
ZIP: 06510
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 6.0.5
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/09055
FILING DATE: 19911127
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/624,135
FILING DATE: 7-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Barth, Richard J.
REGISTRATION NUMBER: 28,180
REFERENCE/DOCKET NUMBER: 900964/RSE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 972-1400
TELEFAX: (212) 370-1622
TELEX: 236268
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1480 amino acids
TYPE: AMINO ACIDS
TOPOLOGY: Linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: signal sequence
LOCATION: 1 to 36
IDENTIFICATION METHOD: similarity to other signal
OTHER INFORMATION: Directs Export
NAME/KEY: Four Plank-LRR-Flank domains
LOCATION: 37 to 910
IDENTIFICATION METHOD: Array of Plank-LRR-Plank
OTHER INFORMATION: mediates adhesive events
NAME/KEY: Tandem EGF-like repeats
LOCATION: 911 to 1150
IDENTIFICATION METHOD: similarity to tandem EGF-like
OTHER INFORMATION: protein-protein interactions
NAME/KEY: 7th EGF-like repeat
LOCATION: 1353 to 1393
IDENTIFICATION METHOD: similarity to epidermal growth
OTHER INFORMATION: Involvement in receptor-ligand
NAME/KEY: Alternative splice segment
LOCATION: 1394 to 1404
IDENTIFICATION METHOD: experimental
OTHER INFORMATION: developmentally regulated
NAME/KEY: COOH-terminal region
LOCATION: 1405 to 1480
IDENTIFICATION METHOD: experimental
PCT-US91-09055-2

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Query Match 10.3%; Score 355.5; DB 5; Length 1480;
Best Local Similarity 25.0%; Pred. No. 5.5e-24;
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;

Qy 46 CPVSCSCNQFSKVCTRGSLVPGIPSNTRYLNLMENN1QM1QADTFRHLHLEVLQ 105
Db 73 CPVSCCTG--LNVDCSHRG1TSVPKISADVERLELQGNNTVIYETDFQRLTKRLMLQ 130
Qy 106 LGRNSIRQIEVGAFNGLASLNTLELFDNLTIPSGAFYLSKRLMLRNNPIESIPSY 165

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131 LTNDQIHTIERNSPQDLVSLERLDISNNVITVGRVFKGAQSLRSLQDNNQITCLDBH 190
166 AFNRVPSLMDLDGELKXLEYISEGAFGLFNLYNLG----- 204
191 AFKGLVELEILTNN--NNLTSLPHNIFGGGLGRALRLSDNPFACDCHLSWLSRFLRSAT 249
205 -----MC-----NIXD----- 210
250 RLAPYTCQSPSQSLKQGNVADHDQEFKCSGLTEHAPMEGCAENSCPHPCRCADGIVDCR 309
211 -----MNLTPVLGLEE----- 222
310 EKSUTSVFVLPDDTTDVRLQNFITELPPKSPSSFRRLRIDLSNNISRIAHDAISGL 369
223 -----LWMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAFDGLASLVELNLAHNN 277
370 KQLTTLVLYGNKIDLPSSGVFKGLSRLLLNANEISCIKDAFRDLHSLSLSLYDNN 429
278 LSSLPDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN--STCCGRCHAPMEM 335
430 IQSLANGTFDAMKSMKTVHLAKNPFICDCNLRWLA-----DYLHKNPIETSGARCESPKRM 485
336 RGRYLVEVDQASFOCS 351
486 HRRRIESLREEKFKCS 501

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RESULT 21
US-09-182-024A-5
; Sequence 5, Application US/09182024A
; Patent No. 6342370
; GENERAL INFORMATION:
; APPLICANT: Connolly, Timothy
; APPLICANT: Rajput, Bharu
; TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding
; TITLE OF INVENTION: Same
; FILE REFERENCE: 640100-271
; CURRENT APPLICATION NUMBER: US/09/182,024A
; CURRENT FILING DATE: 1998-10-25
; PRIOR APPLICATION NUMBER: 60/063,946
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/096,420
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1480
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-182-024A-5

```

```

Query Match 10.3%; Score 353.5; DB 4; Length 1480;
Best Local Similarity 25.0%; Pred. No. 8.4e-24;
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;

QY 46 CPSVSCSNQFSKVVCTRRGLSEVPQGPSPNTRYLNLMNNMIQADTFRHLHLEVLQ 105
DB 73 CERVCCTG--LNVDCSHRGLTSVPRKISADVERLEQGNLTIVYETDFQRLTKLMLQ 130
QY 106 LGRNSIRIEVGAFNGLASLNTLEFDNLTWVPSGAFEYLSKLRELWLNPNPIESPSY 165
DB 131 LTNDQIHTIERNSPQDLVSLERLDISNNVITVGRVFKGAQSLRSLQDNNQITCLDBH 190
QY 166 AFNRVPSLMDLDGELKXLEYISEGAFGLFNLYNLG----- 204
DB 191 AFKGLVELEILTNN--NNLTSLPHNIFGGGLGRALRLSDNPFACDCHLSWLSRFLRSAT 249
QY 205 -----MC-----NIXD----- 210
DB 250 RLAPYTCQSPSQSLKQGNVADHDQEFKCSGLTEHAPMEGCAENSCPHPCRCADGIVDCR 309
QY 211 -----MNLTPVLGLEE----- 222

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DB 310 EKSUTSVFVLPDDTTDVRLQNFITELPPKSPSSFRRLRIDLSNNISRIAHDAISGL 369
QY 223 -----LWMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAFDGLASLVELNLAHNN 277
DB 370 KQLTTLVLYGNKIDLPSSGVFKGLSRLLLNANEISCIKDAFRDLHSLSLSLYDNN 429
QY 278 LSSLPDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN--STCCGRCHAPMEM 335
DB 430 IQSLANGTFDAMKSMKTVHLAKNPFICDCNLRWLA-----DYLHKNPIETSGARCESPKRM 485
QY 336 RGRYLVEVDQASFOCS 351
DB 486 HRRRIESLREEKFKCS 501

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US-09-461-325-161
; Sequence 161, Application US/09461325A
; Patent No. 6475753
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 94 Human Secreted Proteins
; FILE REFERENCE: P2029P1
; CURRENT APPLICATION NUMBER: US/09/461,325A
; CURRENT FILING DATE: 1999-12-14
; EARLIER APPLICATION NUMBER: PCT/US99/134118
; EARLIER FILING DATE: 1999-06-15
; EARLIER APPLICATION NUMBER: 60/089,507
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,508
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,509
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/089,510
; EARLIER FILING DATE: 1998-06-16
; EARLIER APPLICATION NUMBER: 60/090,112
; EARLIER FILING DATE: 1998-06-22
; EARLIER APPLICATION NUMBER: 60/090,113
; EARLIER FILING DATE: 1998-06-22
; NUMBER OF SEQ ID NOS: 532
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 161
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-461-325-161

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Query Match 10.2%; Score 351; DB 4; Length 380;
Best Local Similarity 32.4%; Pred. No. 1.6e-24;
Matches 103; Conservative 46; Mismatches 129; Indels 40; Gaps 8;

QY 28 VWILCAIAAAASAGPQNCPSVCSNQSFKV--CTRRGLSEVPQGPSPNTRYLNLMEN 85
DB 16 LNLQWQVAAP-----CPGACVCYNE--PKVITSCPQGLQAVPVGIPAAASORIFLHGN 67
QY 86 NQIMQADTFRHLHLEVLQGRNSIRIEVGAFNGLASLNTLEFDN--WLVTPSGAPE 144
DB 68 RLSHVPAASFRACNLTILWLSHNVLARIADAAFTGLALIEQLDLSNAQLRSVDPATFH 127
QY 145 YLSKLRELWLNPNPIESPSYAFNRVPSLMDLDGELKXLEYISEGAFGLFNLYNLG 204
DB 128 GLGLRHTV-----HLDRCGLQEL-----GPGLFRGLAALQYLYLQ 162
QY 205 MCNICKDMNLT--PLVGLRELEMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAF 262
DB 163 DNLQALPDDTFRDLGNLTFLHGNRISSVPERAFRGLHSLDRLLHQRVAVHVFHAF 222
QY 263 DGLASLVELNLAHNNISLPHDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN 322
DB 223 RDLGELMTLYLFAANNLSALPTEALAPRALQYLNDNPFVCDRCRAPLWALQKFRGSS 282
QY 323 STCCGRCHAPMEMRGRYL 340

```



b 283 SEV--PCSLPQRLAGRD 298

RESULT 23

S-09-063-950-5

Sequence 5, Application US/09063950C

Patent No. 6225085

GENERAL INFORMATION:

APPLICANT: Holtzman, Douglas A.

TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES

TITLE OF INVENTION: THEREFOR

FILE REFERENCE: MEI-019

CURRENT APPLICATION NUMBER: US/09/063,950C

CURRENT FILING DATE: 1998-04-21

NUMBER OF SEQ ID NOS: 9

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 5

LENGTH: 605

TYPE: PRT

ORGANISM: Papio hamadryas

S-09-063-950-5

Query Match 9.2%; Score 315; DB 3; Length 605;

Best Local Similarity 32.4%; Pred. No. 8.4e-21;

Matches 94; Conservative 44; Mismatches 118; Indels 34; Gaps 7;

42 GPNCPSVCS-----NQFSKVCTRRGLSEVPGQIPSNTRYLMNMMNQIQTDFR 96

38 GPA-CPATCACSVDWELNLS-VFCSRNLTLPDIPGPGTQALWLDNNLSIPPAAPR 95

97 HLHHLVL-----OLG-----RNSIRQIEVGAFNGLASLNTLELFD 132

96 NLSSLAFLNLQGLGSLBPQALLGLNCHLHLRNQLRSVAVGTFTPALALLGLSN 155

133 NMLTVPSPGAFYLSKRLRLNRPISPSYAFNRVPSLRMLDLGELKLEYISEGAF 192

156 NRLSRLEDGLFEGGLNLDNLGNLSLAVLPDAAFGGLGSLRELVLG-NRLAYLQPALF 214

193 EGLFNLYNLGMCNKDKNP--LTPVLGLELENGNEPPIRPGSPHGLSSIKLWVM 250

215 SGLAELELDLSNRAIKANVFAQLPRLQLYLDRLNIAAFAFGFLGKALRWLDLS 274

251 NSQVSLIERNAPGLASVELNLAHNLSSLPHEDLFTPLRYLVELHLHNN 300

275 HNRVAGLEDTFFGLGLAVLRSLSHNAIASLRPTFEDLHFLLEELQLGHN 324

RESULT 24

CT-US91-09055-3

Sequence 3, Application PC/TUS9109055

GENERAL INFORMATION:

APPLICANT: Rothberg, Jonathan Marc and Artavanis-Tsakonas, Spyridon

TITLE OF INVENTION: Purified Slit protein and Sequence Elements Thereof

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Yale University

STREET: 246 Church Street

CITY: New Haven

STATE: Connecticut

COUNTRY: USA

ZIP: 06510

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage

COMPUTER: Apple Macintosh

OPERATING SYSTEM: Macintosh 6.0.5

SOFTWARE: Microsoft Word 4.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US91/09055

FILING DATE: 19911127

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/624,135

FILING DATE: 7-DEC-1990

ATTORNEY/AGENT INFORMATION:

NAME: Barth, Richard J.

REGISTRATION NUMBER: 28,180

REFERENCE/DOCKET NUMBER: 900964/RSB

TELEPHONE: (212) 972-1400

TELEFAX: (212) 370-1622

TELEX: 236268

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 222 amino acids

TYPE: AMINO ACIDS

TOPOLOGY: Linear

MOLECULE TYPE: protein

FEATURE:

NAME/KEY: Flank-LRR-Flank 1

LOCATION: 1 to 222

IDENTIFICATION METHOD: similarity to other Flank-LRR-

OTHER INFORMATION: mediates adhesive events

PCT-US91-09055-3

Query Match 9.1%; Score 312.5; DB 5; Length 222;

Best Local Similarity 26.5%; Pred. No. 2.8e-21;

Matches 81; Conservative 40; Mismatches 86; Indels 99; Gaps 4;

46 CPSCVCSNQFSKVCTRRGLSEVPGQIPSNTRYLMNMMNQIQTDFRHLHLVLQ 105

1 CPVCSCTG-LNVDCSHRGVSPKISADVRLLEQGNLTVIVETDFQLTKRLMQ 58

106 LGSNSIRQIEVGAFNGLASLNTLELFDNMLTVPSCAFYLSKRLMLNPNPIPSY 165

59 LTNQHTIERNFSQDLVSLERLDISNNVITVG----- 92

166 AFNRVPSLMRLDLGELKLEYISEGAFGLFNLYKYNLGNKCNKDKMPNLTPLVGLLEEM 225

93 --REV----- 95

226 SGNHFEIRPGSPHGLSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNLSSLPD 285

96 -----FKGAQSLRSIQDNNQITCLDEHAFKGLVEILTLNNNLTSLPHNI 143

286 FTPLRYLVELHLHNNPWCDCDILNLAHNLREVIPNTSCGCRCHAPMGRYLVVDQ 345

144 FGLGRLRLRLSDNFPACDCHLSNLSRFLRS--ATRLAPYTRCQSPSQKQNVADLHD 201

346 ASFQCS 351

202 QBFKCS 207

RESULT 25

US-08-986-485-7

Sequence 7, Application US/08986485

Patent No. 6046030

GENERAL INFORMATION:

APPLICANT: WU, SHUJIAN

APPLICANT: SWEET, RAYMOND

APPLICANT: TRUREH, ALEMGEGED

TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: RATNER & PRESTIA

STREET: P.O. BOX 980

CITY: VALLEY FORGE

STATE: PA

COUNTRY: USA

ZIP: 19482

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA: US/08/986,485  
 APPLICATION NUMBER: US/08/986,485  
 FILING DATE: 08-DEC-1997  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/059,448  
 FILING DATE: 22-SEP-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: PRESTIA, PAUL F  
 REGISTRATION NUMBER: 23,031  
 REFERENCE/DOCKET NUMBER: GH-70264  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610-407-0700  
 TELEFAX: 610-407-0701  
 TELEX: 846169  
 INFORMATION FOR SEQ ID NO: 7:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 231 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-986-485-7

Query Match 9.1%; Score 312.5; DB 3; Length 231;  
 Best Local Similarity 26.5%; Pred. No. 3e-21;  
 Matches 81; Conservative 40; Mismatches 86; Indels 99; Gaps 4;  
 46 CPSVCSNQSKVCTRGISVPOGIPSNTRYLNLMENNIOIQAQDFHLLHLEVLQ 105  
 17 CPRVCSCTG--LVNDCSHRGITSPKISADVERLELQGNLVIVETPQRTKLRMLQ 74  
 106 LGRNSIRQIEVGFNGLASLNTLFLFONLTVIPSGAFEYLSKRLRLNPNPIPSY 165  
 75 LTDNQHTIERNSPQDLVSLRLDISNNVITVG-- 108  
 166 APNVPSLRLDLGELKLEIYISGAFEGFLNKLNLGMCNKMKNLTPVLGLELEM 225  
 109 --RRV----- 111  
 226 SGNHPEIRPGSFHGLSLKXKLWVNSQVSLIERNAFDGLASIVELNLAHNLSLPHDL 285  
 112 -----FKGAQSLRSQLDNNQITCLDSEAFKGLVELEILTANNNTLSLPHNI 159  
 286 FTPLRYLVELHLHNPWNCDDIILWLAWLREYIPTNSTCCGCHAPMNRGRYLYVEVDQ 345  
 150 FGGLGRRLAALSDNPFACDCHLSWLSRFLRS--ATRLAPYTRCQSPSQACQNVADLHD 217  
 346 ASFOCS 351  
 218 QEPKCS 223

RESULT 26  
 US-08-190-802A-50  
 ; Sequence 50, Application US/08190802A  
 ; Patent No. 5519003  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mochly-Rosen, Daria  
 ; APPLICANT: Ron, Dorit  
 ; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
 ; TITLE OF INVENTION: Thereof  
 ; NUMBER OF SEQUENCES: 265  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Dehlinger & Associates  
 ; STREET: P.O. Box 60850  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94306-0850  
 ; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08/190,802A  
 APPLICATION NUMBER: US/08/190,802A  
 FILING DATE: 01-FEB-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fabian, Gary R.  
 REGISTRATION NUMBER: 33,875  
 REFERENCE/DOCKET NUMBER: 8600-0139  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 324-0960  
 TELEFAX: (415) 324-0960  
 INFORMATION FOR SEQ ID NO: 50:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 603 amino acids  
 TYPE: amino acid  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORIGINAL SOURCE:  
 INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
 INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
 US-08-190-802A-50  
 Query Match 9.0%; Score 310; DB 1; Length 603;  
 Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
 Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
 36 AAASAGPQNCPSVCSN---QPSKVCTRGISVPOGIPSNTRYLNLMENNIOIQA 91  
 32 ASADASEPQ--CPVACTSHDDYTDLSVFCSSKNLTHLPDDIPVSTRALWLDGNLSSIP 90  
 92 ADTPRHLHLLE-----VLQGRNSIRQIEVGFNGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHN 127  
 91 SAAPQNLSSLDLFLNQLGSLRSLPQALLGLQLNLYLHLERNLRLNLAVALGLFTHTPSLAS 150  
 128 LELFDNMLTVIPSGAFEYLSKRLRLNPNPIBSIPSYAFNRVPSLRLDLGELKLEIYI 187  
 151 LSLSNLGLRLEGLFQGLSHLMDLNLGNLSLVLPDTPVQGLGNLHVLVLAG-NKLTYL 209  
 188 SEGAFGLNKLNLGMCNKMKNP--LTPVLGLESELEMSGNHPEIRPGSFHGLSSLK 245  
 210 QPALFCGLGELRELDELGRNALRSVKANVFVHLPRLOKLYLDRNLITAVARGAFGLMKALR 269  
 246 KLVWNSQVSLIERNAFDGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 270 WLDLSHNRVAGLMEDTPFGLGLHVLRLAHNAIASLRPTFKDLHLFLELQGLHN 324

RESULT 27  
 US-08-477-346-50  
 ; Sequence 50, Application US/08477346  
 ; Patent No. 6262023  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mochly-Rosen, Daria  
 ; APPLICANT: Ron, Dorit  
 ; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
 ; TITLE OF INVENTION: Thereof  
 ; NUMBER OF SEQUENCES: 265  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Morrison & Foerster  
 ; STREET: 2000 Pennsylvania Avenue, NW  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20006-1812  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,346  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/487,072  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
US-08-477-346-50

Query Match 9.0%; Score 310; DB 3; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
QY 36 AAAAGAGPNCPSVCSN----QFSKVCTRRGLSEVPGQIPSNRYINLMENNIMQI 91  
DB 32 ASADAEGPQ-CPVACTCHDDYDELSVFCSSKNLTHLPDDIPVSTRALWLDGNNLSIP 90  
QY 92 ADTFRLHLE-----VLOLGRNSIROEVGAFNGLASINT 127  
DB 91 SAAFONLSLDFNLQGSWLRSLRLEPQALLGLQNLVYLLHLENNLENLAVGLFTTPSLAS 150  
QY 128 LELFONNLTVIPSGAFYLSKRLRLNRPPIESIPSYAENRVPFLMRDLGELKKLEYI 187  
DB 151 LSLSNLLRLEEGFLQGLSHLWDLNGLWNSLVLPDTPVFOGLGNLHVLVLAG-NKLYL 209  
QY 188 SGAGFEGFLNLYNLGMCNIDMPN--LTPVGLHELEMSGNHFFPIRPGSFGLSLK 245  
DB 210 QPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOKLYLDRNLITAVAPGAFGLMKALR 269  
QY 246 KLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHNN 300  
DB 270 WLDLSHNRVAGLMEDTFPGLGLGHVLRLAHNAIASLRPRTFKDLHFLLEELQIGHN 324

RESULT 28  
US-08-477-089-50  
Sequence 50, Application US/08473089  
Patent No. 6342368  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Thereof  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESS: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/473,089  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.22  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
US-08-473-089-50

Query Match 9.0%; Score 310; DB 4; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
QY 36 AAAAGAGPNCPSVCSN----QFSKVCTRRGLSEVPGQIPSNRYINLMENNIMQI 91  
DB 32 ASADAEGPQ-CPVACTCHDDYDELSVFCSSKNLTHLPDDIPVSTRALWLDGNNLSIP 90  
QY 92 ADTFRLHLE-----VLOLGRNSIROEVGAFNGLASINT 127  
DB 91 SAAFONLSLDFNLQGSWLRSLRLEPQALLGLQNLVYLLHLENNLENLAVGLFTTPSLAS 150  
QY 128 LELFONNLTVIPSGAFYLSKRLRLNRPPIESIPSYAENRVPFLMRDLGELKKLEYI 187  
DB 151 LSLSNLLRLEEGFLQGLSHLWDLNGLWNSLVLPDTPVFOGLGNLHVLVLAG-NKLYL 209  
QY 188 SGAGFEGFLNLYNLGMCNIDMPN--LTPVGLHELEMSGNHFFPIRPGSFGLSLK 245  
DB 210 QPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOKLYLDRNLITAVAPGAFGLMKALR 269  
QY 246 KLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHNN 300  
DB 270 WLDLSHNRVAGLMEDTFPGLGLGHVLRLAHNAIASLRPRTFKDLHFLLEELQIGHN 324

RESULT 29  
US-08-487-072A-50  
Sequence 50, Application US/08487072A  
Patent No. 6423684  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Thereof  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESS: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/487,072A  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
US-08-487-072A-50

Query Match 9.0%; Score 310; DB 4; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
Y 36 AAASAGPQCPCVCSN-----QFSKVCTRGLESEVPGIISNTRYLNLMENNIQIQ 91  
b 32 ASADAEGPQ-CPVACTSHDDYDELSEVFCSSKNLTHLPDDIPVSTRALWLDGNNLSIP 90  
Y 92 ADTFRHLHLE-----VLQGRNSIRQIEVGAFAAGLASLNT 127  
b 91 SAARQNLSSLDFFLNQSSWLSRLEPQALLGLQNLXYLHLERNLNLAVGLFHTTSLAS 150  
Y 128 LEFDNMLTVIPSGAFYLSKRLRLRNPIISIPSYAFNRVPSLMRLDGLKLEYI 187  
b 151 LSLSSNLGLRLEGLFQGLSHMDNLGMSLVVLPDTVFQGLGNLHFLVLAG-NKLTLYL 209  
Y 188 SEGAFGLFNLYNLGNCNIKMPN--LTPLVGLELEMSGNHFFPIRPGSFGLSSLK 245  
b 210 QPALFCGLGEURELDLGRNALRSVKNVFLPRLQKLYLDRLNLTAVAGFGLGNKALR 269  
Y 246 KLVWNSQVSLIERNAFDGLASVELNLARNLSSLPDLPFLRYLVELHLHN 300  
b 270 WLDLSHNRVAGLMEDTFPGLLGLHVLRLAHNAIASLRPTFKDLHFLHLELQGHN 324

RESULT 30  
US-08-190-802A-49  
Sequence 49, Application US/08190802A  
Patent No. 5519003  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Theroif  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dehlinger & Associates  
STREET: P.O. Box 60850  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306-0850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/190,802A  
FILING DATE: 01-FEB-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Fabian, Gary R.  
REGISTRATION NUMBER: 33,875  
REFERENCE/DOCKET NUMBER: 8600-0139  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
US-08-190-802A-49

Query Match 9.0%; Score 309; DB 1; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;  
Q 42 GPQCPCVCS-----NPFKVVCTRRGLSEVPGIIPNTR----- 78  
b 38 GPA-CPAACVCSYDDDADELS-VFCSSRLTRLPDGVPGGTQALWLDGNNLSVPPAAFO 95  
Q 79 -----YLNLMENNIQIQADTFRLHHLHLEVLQGR 108  
b 96 NLSSGLFLNTGGGGLSLEPQALLGLNCHLHLELNQLRSALGTFAHTPALASGLSN 155  
Q 109 NSIRQIEVGAFNGIASLNTLEFDNMLTVIPSGAFYLSKRLRLRNNDIESIPSYAFN 168  
b 156 NLSLEDEGLFEGGLSGLMDNLGNSLAVLPDAAFRGLSRLRELVLNAGNRLAYLQPALFS 215  
Q 169 RVPGLMRDLG-----ELXKL-----EYISEGAFGLFNLYNL-- 203  
b 216 GLAELELDL-SRNALRAIKANVFVQLPRLQKLYLDRLNLTAAVAPGAFGLKALRWLDLSH 275  
Q 204 -----GMCNFK-----DMPNLTP-----LVGLELEMSGNHFFPIRPGSFH 239  
b 276 NRVAGLLEDFPGLLGLRLVLSHNAIASLRPTFKDLHFLHLELQGHNRIRQLAERSFE 335  
Q 240 GLSSIKKLWNSQVSLIERNAFDGLASVELNLARNLSSLPDLPFLRYLVELHLHN 299  
b 336 GLGQLEVLTLDHNLQEVKAGAFGLTNVAVMNLSCNLENLPEQVFRGLGKLHSLHL-- 393  
Q 300 NPNWCDLILMAWLREYIPTNSTCCGRCH-----APGMRGRYLVVEVDQASFQ 349  
b 394 -----EGSCLGRIRPHTFTCLSGRLFLKNDGLVGLVIEQSLSW 431  
Q 350 CSAPFT-MDAPRD-----LNISEGRMAELKC-RTPPMSSVYWL----- 395  
b 432 GLAELELDLTSNQLTHLPHRLFQGLKLEYLLSRNRLAELPADALGPLQRAFLVDVSH 491  
Q 386 -----LNGTVLSHARPRISVLNDGTLNFS 412  
b 492 NRLALPN-SLLAPLGRLYLSLRNNSLRFTT 522

RESULT 31  
US-08-477-346-49  
Sequence 49, Application US/08477346  
Patent No. 6262023  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Theroif

NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,346  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/487,072  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
j-08-477-346-49

Query Match 9.0%; Score 309; DB 3; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;

42 GPONCPVSCS-----NOFSKVCTRGSLSEVPQIGPSNTR----- 78  
38 GPA-CPACVCSYDDADELS-VFCSSRNLTPLDPGVGGTQALWLDGNLSSVPPAFQ 95  
79 -----YINLMENNIQMIQADTFPHLHLEVLQGR 108  
96 NLSLGLFLNQGQGLSLEPQALLGLENLCHLHLERNQLRSALGTFAHTPALASGLSN 155  
109 NSIROIEVGAENGLASLTLEFDNWLTVIPSGAPEYLSKRLRLNRPTEIPSYAFN 168  
156 NLSRLDGLFEGGLSMDLNGWNSLAVIPDAAPRGSLGRLVLAGNRLAYLPALFS 215  
169 RYPSLMRLDLG-----ELKKI-----EYISGAPEGLFNKLYNL-- 203  
216 GLAELELDLSNLRATKANVFQLPRLQKLYLDRNLIAAFAFGALGLKALRWLDLSH 275  
204 -----GMCNIK-----DMENLTP-----LVGLEELEMGNHPPETRPQSFH 239  
276 NRVAGLLEDTFFGLGLGVLRLSHNAISLSPRTFKOLFLEELQLGNRIQQAERSFE 335  
240 GLSSKKLWNNMSQVSLERNAFDGLASIVINLAHNNLSSLPDELFTPLRYLVVLLH 299  
336 GLGQLEVLTDHNLQEVKAGAFGLGTVAVMNLGNCNRLNPEQVFGGLKLSHL-- 393  
300 NPWNCDDILMLAWLREYIPNNTCCGRCH-----APHEMRGRVLEVVDQASFQ 349  
394 -----EGSCLGRIRPHTFTGLSGRLRLFKDNGLVGIEEQSLW 431  
350 CSAPFI-MDAPRD-----LNISGRMAELKC-RTPPMSSVKWL----- 365

Db 432 GLAELELDLSNLRATKANVFQLPRLQKLYLDRNLIAAFAFGALGLKALRWLDLSH 491  
Qy 386 -----LPGNCTVLSHSHRPRISVLANDGTINFS 412  
Db 492 NRLEALPN-SLLAPLGRLYLSLRNNSLRFTT 522

RESULT 32  
US-08-473-089-49  
Sequence 49, Application US/08473089  
Patent No. 6342368  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Thereof  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/473,089  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.22  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
US-08-473-089-49

Query Match 9.0%; Score 309; DB 4; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;

42 GPONCPVSCS-----NOFSKVCTRGSLSEVPQIGPSNTR----- 78  
38 GPA-CPACVCSYDDADELS-VFCSSRNLTPLDPGVGGTQALWLDGNLSSVPPAFQ 95  
79 -----YINLMENNIQMIQADTFPHLHLEVLQGR 108  
96 NLSLGLFLNQGQGLSLEPQALLGLENLCHLHLERNQLRSALGTFAHTPALASGLSN 155  
109 NSIROIEVGAENGLASLTLEFDNWLTVIPSGAPEYLSKRLRLNRPTEIPSYAFN 168  
156 NLSRLDGLFEGGLSMDLNGWNSLAVIPDAAPRGSLGRLVLAGNRLAYLPALFS 215  
169 RYPSLMRLDLG-----ELKKI-----EYISGAPEGLFNKLYNL-- 203  
216 GLAELELDLSNLRATKANVFQLPRLQKLYLDRNLIAAFAFGALGLKALRWLDLSH 275  
204 -----GMCNIK-----DMENLTP-----LVGLEELEMGNHPPETRPQSFH 239  
276 NRVAGLLEDTFFGLGLGVLRLSHNAISLSPRTFKOLFLEELQLGNRIQQAERSFE 335  
240 GLSSKKLWNNMSQVSLERNAFDGLASIVINLAHNNLSSLPDELFTPLRYLVVLLH 299  
336 GLGQLEVLTDHNLQEVKAGAFGLGTVAVMNLGNCNRLNPEQVFGGLKLSHL-- 393  
300 NPWNCDDILMLAWLREYIPNNTCCGRCH-----APHEMRGRVLEVVDQASFQ 349  
394 -----EGSCLGRIRPHTFTGLSGRLRLFKDNGLVGIEEQSLW 431  
350 CSAPFI-MDAPRD-----LNISGRMAELKC-RTPPMSSVKWL----- 365

204 -----GMCNIK-----DMPNLT-----LVGLELENSGNHFFPIRGSEF 239  
276 NRVALLEDTPGGLGLRLVRLSHNAISURPTFKDLHFLLEQLGHNRIQLAERSFE 335  
240 GLSSIKKLWNSQVSLIERNAPDGLASIVELNAHNLSLPHDLFTPIRLYIVELHLLH 299  
336 GLGLEVLTLDHNLQVKGAGFLGTNVAVMNLGNCLENLPEQVFRGLGKLSLHL-- 393  
300 NPMNCDIILWAWLWREYIPTNSTCGRCH-----APMHRGRYLVVEVDQASFQ 349  
394 -----EGSCLGRIPHTFTGLSGRLRLFKDGLVGLIEBQSLW 431  
350 CSAPPI-WDAPRD-----LMISEGRMAELKC-RTPPMSSVYWL----- 385  
432 GLABLELDLTSNQLTHPLHRLFOGLGKLEYLLSRNLAEPLADALGPLQRAFWDVSH 491  
386 -----LPGTVLASHRPRISVINDGTNFS 412  
492 NRLEALPN-SLLAPLGLRLYLSLNNSLRTFT 522

RESULT 33  
JS-08-487-072A-49  
; Sequence 49, Application US/08487072A  
; Patent No. 6423684  
; GENERAL INFORMATION:  
; APPLICANT: Mochly-Rosen, Daria  
; APPLICANT: Ren, Dorit  
; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
; TITLE OF INVENTION: Thereof  
; NUMBER OF SEQUENCES: 265  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Morrison & Foerster  
; STREET: 2000 Pennsylvania Avenue, NW  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20006-1812  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/487,072A  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MURASHIGE, KATE H.  
; REGISTRATION NUMBER: 29,959  
; REFERENCE/DOCKET NUMBER: 2550-0025.20  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 887-1500  
; TELEFAX: (202) 887-0763  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 605 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
; INDIVIDUAL ISOLATE: protein complex, Fig. 32  
JS-08-487-072A-49

Query Match 9.0%; Score 309; DB 4; Length 605;  
Best Local Similarity 23.6%; Freq. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;  
42 GPQNCPSVCSCS-----NQFSKWVCTRRGLSEVPQGIPIPNTR----- 78

38 GPA-CPAACVSYDDDADELS-VFCSSRNLTRELPGVPGGTQALWLDGNLSSVPPPAFQ 95  
79 -----YLNLMENNIQMIQADTFRLHLHLEVLQLGR 108  
96 NLISGLFLNLOGGOLCSLEPQALLGLENLCHLERNQLRSALGTFHTPALASIGLSN 155  
109 NSIRQIVGAPNGIASLNTLELPENWLTVPISGAFYLSKLRMLRNPIESIPSYAFN 168  
156 NLSRLSDGLFEGIGSLWDLNLGWSLAVLPDAAFRGLASRLVELVLAGNRLAYLQPALFS 215  
169 RVPISLMDLGL-----ELKKG-----EYISGAFEGLENLKYLNL-- 203  
216 GLABRELDLSRNALRAIKANVFQVLPRLQKLYLDNLTAAVAPGAFGLKALRWLDLSH 275  
204 -----GMCNIK-----DMPNLT-----LVGLELENSGNHFFPIRGSEF 239  
276 NRVALLEDTPGGLGLRLVRLSHNAISURPTFKDLHFLLEQLGHNRIQLAERSFE 335  
240 GLSSIKKLWNSQVSLIERNAPDGLASIVELNAHNLSLPHDLFTPIRLYIVELHLLH 299  
336 GLGLEVLTLDHNLQVKGAGFLGTNVAVMNLGNCLENLPEQVFRGLGKLSLHL-- 393  
300 NPMNCDIILWAWLWREYIPTNSTCGRCH-----APMHRGRYLVVEVDQASFQ 349  
394 -----EGSCLGRIPHTFTGLSGRLRLFKDGLVGLIEBQSLW 431  
350 CSAPPI-WDAPRD-----LMISEGRMAELKC-RTPPMSSVYWL----- 385  
432 GLABLELDLTSNQLTHPLHRLFOGLGKLEYLLSRNLAEPLADALGPLQRAFWDVSH 491  
386 -----LPGTVLASHRPRISVINDGTNFS 412  
492 NRLEALPN-SLLAPLGLRLYLSLNNSLRTFT 522

RESULT 34  
US-08-592-500-2  
; Sequence 2, Application US/08592500  
; Patent No. 6005089  
; GENERAL INFORMATION:  
; APPLICANT: Lanza, Francois  
; APPLICANT: Phillips, David R.  
; APPLICANT: Cazenave, Jean-Pierre  
; TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Hourie and Crew  
; STREET: 379 Lytton Avenue  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: US  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/592,500  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/089,455  
; FILING DATE: 09-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dow, Karen B.  
; REGISTRATION NUMBER: 29,684  
; REFERENCE/DOCKET NUMBER: 12418-28  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 326-2400  
; TELEFAX: (415) 326-2422  
; INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 560 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-592-500-2

Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;  
66 LSEVPOGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLRNPIESIPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNLTLLTFENPLAELFGVLFGMGGLQELWLNLR-T 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLSELE---MSGNHFFPEIR 234  
301 QURTLPAFAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294  
356 DGLLRLGKLRQVSLRRNRRLRALPRALFRNLSSLESVQLDHNQLETLPDGVFGALPRLTE 415  
295 LHLHNPNCDCDILWLAWMLREVI-----PTNSTCCGRCCHAPMHRGRLVVEVDQAS 347  
416 VLLGHNSWRCDCGLGFPFLGRLHQLGLVGGREPP-----RCAGFGAHAGLPLWALPGGD 469  
348 FOCSPAFFINDAPRLNISEGRMAELKCTPTPMSSVKMLLPNGTVLSHSHRPRIS 402  
470 ARCPGP-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 35  
US-08-195-006-2  
Sequence 2, Application US/08195006  
Patent No. 6083688  
GENERAL INFORMATION:  
APPLICANT: Lanza, Francois  
APPLICANT: Phillips, David R.  
APPLICANT: Cazenave, Jean-Pierre  
TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESSES:  
ADDRESSER: Townsend and Townsend Kourie and Crew  
STREET: 379 Lytton Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: US  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/195,006  
FILING DATE: 10-FEB-1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/089,455  
FILING DATE: 09-JUL-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 12418-28  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 326-2400  
TELEFAX: (415) 326-2422  
INFORMATION FOR SEQ ID NO: 2

SEQUENCE CHARACTERISTICS:  
LENGTH: 560 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-195-006-2

Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;  
66 LSEVPOGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLRNPIESIPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNLTLLTFENPLAELFGVLFGMGGLQELWLNLR-T 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLSELE---MSGNHFFPEIR 234  
301 QURTLPAFAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294  
356 DGLLRLGKLRQVSLRRNRRLRALPRALFRNLSSLESVQLDHNQLETLPDGVFGALPRLTE 415  
295 LHLHNPNCDCDILWLAWMLREVI-----PTNSTCCGRCCHAPMHRGRLVVEVDQAS 347  
416 VLLGHNSWRCDCGLGFPFLGRLHQLGLVGGREPP-----RCAGFGAHAGLPLWALPGGD 469  
348 FOCSPAFFINDAPRLNISEGRMAELKCTPTPMSSVKMLLPNGTVLSHSHRPRIS 402  
470 ARCPGP-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 36  
US-09-063-950-4  
Sequence 4, Application US/09063950C  
Patent No. 6235095  
GENERAL INFORMATION:  
APPLICANT: Holtzman, Douglas A.  
TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
FILE REFERENCE: MEI-019  
CURRENT APPLICATION NUMBER: US/09/063,950C  
CURRENT FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 560  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-063-950-4  
Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;  
66 LSEVPOGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLRNPIESIPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNLTLLTFENPLAELFGVLFGMGGLQELWLNLR-T 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLSELE---MSGNHFFPEIR 234  
301 QURTLPAFAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294



Db 356 DGLRLGLKROVSRNRRLRALPRALFRNLSSLESVOLDHNLQETLPDGVFGALPRLETE 415  
QY 295 LHLHFNPNCCDILWLAWLREYI-----PTNSTCCGCHAPMGRGYLVEVDQAS 347  
Db 416 VLLGHSNRCCDGLGFLGLVGGGEPP-----RCAGFGAHAGLPLWALPGGD 469  
QY 348 FQCSAPFINDAPRLNISEGRMAELKCTPPMSSVKWLLPNGTVLSHASRHRPRIS 402  
Db 470 AECGPGF-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 37  
PCT-US94-07644A-2  
; Sequence 2, Application PC/TUS9407644A  
; GENERAL INFORMATION:  
; APPLICANT: COR Therapeutics, Inc.  
; TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: 379 Lytton Avenue  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: US  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/07644A  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dow, Karen B.  
; REGISTRATION NUMBER: 29,684  
; REFERENCE/DOCKET NUMBER: 012419-003000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 326-2400  
; TELEFAX: (415) 326-2422  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 560 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
PCT-US94-07644A-2

Query Match 8.9%; Score 305.5; DB 5; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;

QY 66 LSEVPOGI---PSNTRYLNLMENNIQIADTFRHLHLEVQLGRNSIRQIEVGAFNGL 122  
Db 182 LTHLPKGLGAQAKLERLLHSNRVLSLDSLLSGLALTELOPHRNHRSIAPGAFDL 241  
QY 123 ASLNTLELFDNLTVPISGAFEYLSKLRLMRNPISPSYAFNRVPSLMDLDELK 192  
Db 242 PNLSSLTLSRNHLAFLPSALFLSHENLTLLTFENPLAELFGVLFGRMGGLQSLWLR-T 300  
QY 183 KLEYISGAFGLFLKLYNLNMGCMKMPNLTPL-----VGLBELE---MSGNHPEIR 234  
Db 301 QLRTPAAFRNLSELRVLYGTL-----SPLSALPQAGFQGLGLOVLALHSGLTALP 355  
QY 235 PGSFHGLSLKKLYMNSQVSLIRNAPDGLASVVELNLAHNLSSLPDLFTFLRYLVE 294  
Db 356 DGLLAGLGLKRVSLRRNRRLRALPRALFRNLSSLESVOLDHNLQETLPDGVFGALPRLETE 415  
QY 295 LHLHFNPNCCDILWLAWLREYI-----PTNSTCCGCHAPMGRGYLVEVDQAS 347  
Db 416 VLLGHSNRCCDGLGFLGLVGGGEPP-----RCAGFGAHAGLPLWALPGGD 469  
QY 348 FQCSAPFINDAPRLNISEGRMAELKCTPPMSSVKWLLPNGTVLSHASRHRPRIS 402

Db 470 AECGPGF-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 38  
US-08-442-063A-45  
; Sequence 45, Application US/08442063A  
; Patent No. 5705609  
; GENERAL INFORMATION:  
; APPLICANT: RUOSLAHTI, ERKKI I.  
; APPLICANT: PIERSCHBACHER, MICHAEL D.  
; APPLICANT: CARDENAS, JOSE  
; APPLICANT: CRAIG, WILLIAM  
; APPLICANT: MULLEN, DANIEL G.  
; TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
; TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
; NUMBER OF SEQUENCES: 62  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CAMPBELL AND FLORES  
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
; CITY: SAN DIEGO  
; STATE: CALIFORNIA  
; COUNTRY: UNITED STATES  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/442.063A  
; FILING DATE: 16-MAY-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/865,652  
; FILING DATE: 03-APR-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CAMPBELL, CATHRYN A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-LA 1454  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-535-9001  
; TELEFAX: 619-535-8949  
; INFORMATION FOR SEQ ID NO: 45:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 282 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-442-063A-45

Query Match 8.8%; Score 303.5; DB 1; Length 282;  
Best Local Similarity 31.9%; Pred. No. 2.9e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;

QY 40 SAGPNCVSCSNQPSKVCTRGISEVPOGIPSTRYNLNMENNIMQIADTFRHLH 99  
Db 21 SLGPV-CFPRQC--HLRVVQCSDGLDKVPRDLFPDTLLDQNNKITKQDFKNLK 77  
QY 100 HLEVQLGRNRIQIEVGAFNGLASLNTLELFDNLTVPISGAFEYLSK-LRELWLNPP 158  
Db 78 NLHALILVNNKISKVSPGAPTPVLYKLERLYLSKNQAKELP-----EKMPKTLQSLRAHENE 133  
QY 159 IESTPSYAFNRVPSLMDLIDG-ELKLEYISEGAFGLFNLKLYNLNMGCMKMPNLTPL 217  
Db 134 ITKRVKTFNGLNQIMVIELGTNPFLKSSGIENGAFQGMKKLSYIRIADTNITIPQGLP- 192  
QY 218 VGLRELEMSGNHPEIRPGSFHGLSSLLKLYMNSQVSLIRNAPDGLASVVELNLAHNN 277  
Db 193 PSUTELHLDGNNKISRVDAAASLKGLNLAFLGLSFNSISAVDNGSLANTPHRLHLDNKK 252  
QY 278 LSSLPHDLFTFLRYLYVELHLHNN 300

253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 39  
 US-08-442-063A-48  
 : Sequence 48, Application US/08442063A  
 : Patent No. 5705609  
 : GENERAL INFORMATION:  
 : APPLICANT: RUOSLAHTI, ERKKI I.  
 : APPLICANT: PERSCHACHER, MICHAEL D.  
 : APPLICANT: CARDENAS, JOSE  
 : APPLICANT: CRAIG, WILLIAM  
 : APPLICANT: MULLEN, DANIEL G.  
 : TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
 : TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
 : NUMBER OF SEQUENCES: 62  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: CAMPBELL AND FLORES  
 : STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 : CITY: SAN DIEGO  
 : STATE: CALIFORNIA  
 : COUNTRY: UNITED STATES  
 : ZIP: 92122  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent In Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/442,063A  
 : FILING DATE: 16-MAY-1995  
 : CLASSIFICATION: 514  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 07/865,652  
 : FILING DATE: 03-APR-1992  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: CAMPBELL, CATHRYN A.  
 : REGISTRATION NUMBER: 31,815  
 : REFERENCE/DOCKET NUMBER: P-LA 1454  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 619-535-8949  
 : TELEFAX: 619-535-8949  
 : INFORMATION FOR SEQ ID NO: 48:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 307 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein  
 : US-08-442-063A-48

Query Match 8.8%; Score 303.5; DB 1; Length 307;  
 Best local Similarity 31.9%; Pred. No. 3.4e-20;  
 Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
 40 SAGFQNCPSVCSNPFKVVCTRRGLSEVPQGIPTNRYLNMENNIMQIADTFRHLH 99  
 21 SLGEV-CPPFCQC--HLRVVQCSDLGLDKVPKDLPPDTLLDQNNKITEIKDGFKNLK 77  
 100 HLEVLQIGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFEYLSK-LRELWLRNP 158  
 78 NLHALLIUNNKISKVSPGAFPLVKLERLYLSKQQLKEIP-----EKPMTLOELRAHNE 133  
 159 IESIPSVAFNRVPSLMLDLIG-ELKKLEYISGAFGLFNKLYNLGMCNIDKMPNLTPL 217  
 134 ITRKRVTFNGLNQMVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 192  
 218 VGLLELEMSGNHPEIRPGSFHGLSSIKLWVNSQVSLIERNAFPGLASLVELNLHNN 277  
 193 PSLTEHLDGNGKSRVDAASLKGNNLAKGLGFSNSISAVDNGSLANTPHLRELHLDNNK 252  
 278 LSSLPDLFTPLRYLVELHLHN 300  
 253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 40  
 US-08-442-063A-27  
 : Sequence 27, Application US/08442063A  
 : Patent No. 5705609  
 : GENERAL INFORMATION:  
 : APPLICANT: RUOSLAHTI, ERKKI I.  
 : APPLICANT: PERSCHACHER, MICHAEL D.  
 : APPLICANT: CARDENAS, JOSE  
 : APPLICANT: CRAIG, WILLIAM  
 : APPLICANT: MULLEN, DANIEL G.  
 : TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
 : TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
 : NUMBER OF SEQUENCES: 62  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: CAMPBELL AND FLORES  
 : STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 : CITY: SAN DIEGO  
 : STATE: CALIFORNIA  
 : COUNTRY: UNITED STATES  
 : ZIP: 92122  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent In Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/442,063A  
 : FILING DATE: 16-MAY-1995  
 : CLASSIFICATION: 514  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 07/865,652  
 : FILING DATE: 03-APR-1992  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: CAMPBELL, CATHRYN A.  
 : REGISTRATION NUMBER: 31,815  
 : REFERENCE/DOCKET NUMBER: P-LA 1454  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 619-535-9001  
 : TELEFAX: 619-535-8949  
 : INFORMATION FOR SEQ ID NO: 27:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 333 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein  
 : US-08-442-063A-27

Query Match 8.8%; Score 303.5; DB 1; Length 333;  
 Best local Similarity 31.9%; Pred. No. 3.9e-20;  
 Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
 40 SAGFQNCPSVCSNPFKVVCTRRGLSEVPQGIPTNRYLNMENNIMQIADTFRHLH 99  
 21 SLGEV-CPPFCQC--HLRVVQCSDLGLDKVPKDLPPDTLLDQNNKITEIKDGFKNLK 77  
 100 HLEVLQIGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFEYLSK-LRELWLRNP 158  
 78 NLHALLIUNNKISKVSPGAFPLVKLERLYLSKQQLKEIP-----EKPMTLOELRAHNE 133  
 159 IESIPSVAFNRVPSLMLDLIG-ELKKLEYISGAFGLFNKLYNLGMCNIDKMPNLTPL 217  
 134 ITRKRVTFNGLNQMVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 192  
 218 VGLLELEMSGNHPEIRPGSFHGLSSIKLWVNSQVSLIERNAFPGLASLVELNLHNN 277  
 193 PSLTEHLDGNGKSRVDAASLKGNNLAKGLGFSNSISAVDNGSLANTPHLRELHLDNNK 252  
 278 LSSLPDLFTPLRYLVELHLHN 300  
 253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 43  
PCT-US95-08542-2

RESULT 42  
[S-08-619-916-2

Sequence 2, Application PC/TUS9508542  
GENERAL INFORMATION:  
APPLICANT: La Jolla Cancer Research Foundation  
TITLE OF INVENTION: Processes for the Purification of  
TITLE OF INVENTION: Human  
TITLE OF INVENTION: Recombinant Decorin and the Detection of Guanidinium  
TITLE OF INVENTION: Ions  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESS: Campbell and Flores  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/08542  
FILING DATE: 07-JUL-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Susan M.  
REGISTRATION NUMBER: 36,405  
REFERENCE/DOCKET NUMBER: FP-LA 1751  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 342 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
T-US95-08542-2

Query Match 8.8%; Score 303.5; DB 5; Length 342;  
Best Local Similarity 31.9%; Pred. No. 4e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGPQNCPSVCSNQFSCVCTRGSEVPGQIPSNTRYLNLMENNMIQADTFRLH 99  
33 SLGPV-CFPRQC--HLRVQCSDLGLDKVPKDPDPTLLDLQNNKITEIKDGFKNLK 89  
100 HLEVLQGENSIHQIEVGAENGLASLNTLELFDNWLTVIPSGAFYLSK-LRELWLRNP 158  
90 NLHALILVNNKISKVSPGAPTLVKLERLYLSKNQKELP-----EKMPKTLQELRAHENE 145  
159 IBSIPSYAFNRVPSLRMLDLG-ELKKLEYISEGAFGLFNLYLNLMGMCNIXDMPNLTPL 217  
146 ITKVRKVTFFNGLNQMVIELGTNPKSSGIENGAFQGNKKLSYIRIADTNITSIPQGLP- 204  
218 VGLLELEMSGNHFPPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASIVELNLAHNN 277  
205 PSLTELHLDGNNKISVDAAKGLNNAKLGLSPNSISAVDNGSLANTPHRLHLDNNK 264  
278 LSSLPHDLFTPLRYLVELLHHN 300  
265 LTRVPGGL-AEHKVIQVYVLENN 286

RESULT 44  
3-08-303-238-4  
Sequence 4, Application US/08303238  
Patent No. 5654270  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: LONGAKER, MICHAEL T.  
APPLICANT: WHITBY, DAVID J.  
APPLICANT: HARPER, JOHN R.

APPLICANT: PIERSCHBACHER, MICHAEL D.  
APPLICANT: BORDER, WAYNE A.  
TITLE OF INVENTION: INHIBITORS OF CELL REGULATORY FACTORS  
TITLE OF INVENTION: AND METHODS FOR PREVENTING OR REDUCING SCARRING  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESS: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/303,238  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/978,931  
FILING DATE: 17-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: KOSKI, ANTOINETTE F.  
REGISTRATION NUMBER: 34,202  
REFERENCE/DOCKET NUMBER: P-LA 9453  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-535-9001  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 359 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-303-238-4  
Query Match 8.8%; Score 303.5; DB 1; Length 359;  
Best Local Similarity 31.9%; Pred. No. 4.4e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGPQNCPSVCSNQFSCVCTRGSEVPGQIPSNTRYLNLMENNMIQADTFRLH 99  
49 SLGPV-CFPRQC--HLRVQCSDLGLDKVPKDPDPTLLDLQNNKITEIKDGFKNLK 105  
100 HLEVLQGENSIHQIEVGAENGLASLNTLELFDNWLTVIPSGAFYLSK-LRELWLRNP 158  
106 NLHALILVNNKISKVSPGAPTLVKLERLYLSKNQKELP-----EKMPKTLQELRAHENE 161  
159 IBSIPSYAFNRVPSLRMLDLG-ELKKLEYISEGAFGLFNLYLNLMGMCNIXDMPNLTPL 217  
162 ITKVRKVTFFNGLNQMVIELGTNPKSSGIENGAFQGNKKLSYIRIADTNITSIPQGLP- 220  
218 VGLLELEMSGNHFPPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASIVELNLAHNN 277  
221 PSLTELHLDGNNKISVDAAKGLNNAKLGLSPNSISAVDNGSLANTPHRLHLDNNK 280  
278 LSSLPHDLFTPLRYLVELLHHN 300  
281 LTRVPGGL-AEHKVIQVYVLENN 302  
RESULT 45  
US-08-458-834-4  
Sequence 4, Application US/08458834  
Patent No. 6277812  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: LONGAKER, MICHAEL T.  
APPLICANT: WHITBY, DAVID J.  
APPLICANT: HARPER, JOHN R.

APPLICANT: PIERSCBACHER, MICHAEL D.  
 APPLICANT: BORDER, WAYNE A.  
 TITLE OF INVENTION: INHIBITORS OF CELL REGULATORY FACTORS  
 TITLE OF INVENTION: AND METHODS FOR PREVENTING OR REDUCING SCARRING  
 NUMBER OF SEQUENCES: 8  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CAMPELLO AND FLORES  
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 CITY: SAN DIEGO  
 STATE: CALIFORNIA  
 COUNTRY: UNITED STATES  
 ZIP: 92122

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/458,834  
 FILING DATE:  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/978,931  
 FILING DATE: 17-NOV-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: KOSKI, ANTOINETTE F.  
 REGISTRATION NUMBER: 34,202  
 REFERENCE/DOCKET NUMBER: P-LA 9453  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-535-9001  
 TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 359 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 IS-08-458-834-4

Query Match 8.8%; Score 303.5; DB 3; Length 359;  
 Best Local Similarity 31.9%; Pred. No. 4.4e-20;  
 Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;

40 SAGPQNSVCSCNSQPSKVCVTRGLSEVPGQIPSTRYLNNMNNIOMIQADIPRHLH 99  
 49 SLGPGV-CFERQC--HLRVQCSDGLDKVPKDLPPDTLLDQNNKITEIKGDFENLK 105  
 100 HLEVLQGRNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSGAFYLSK-LRELMLRNPP 158  
 106 NEHALILVNNKISKVSPGAPTPLVKLERLYLSKNQKELP-----EQPKTLQELRAHENS 161  
 159 IESIPSVAFNRVPSLMRLDLG-ELKKLEYISEGAFGLFNKLYLNIGMNIKDMNLTPL 217  
 162 ITKRVKTENGQNMIVIELGTNPGLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 220  
 218 VGLLENSGHHFPEIRPGSPHGLSSKKLVNNSQVLSIERNAPFGLASVLELNAHN 277  
 221 PSLTELHLDGKISRVDAAISLGLNNLAKLGLFNISAVDNGSLANTPHRELHLDNKK 280  
 278 ISSLPDLFTPLRYLVLLHLHN 300  
 281 LTRVPGGL-AEHKTIQVYVLLHN 302

RESULT 46  
 US-09-170-496D-264  
 ; Sequence 264, Application US/09170496D  
 ; Patent No. 6555339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Behan, Dominic P.  
 ; APPLICANT: Chalmers, Derek T.  
 ; APPLICANT: Liaw, Chen W.  
 ; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-

; TITLE OF INVENTION: Receptors  
 ; FILE REFERENCE: AREN-0040  
 ; CURRENT APPLICATION NUMBER: US/09/170,496D  
 ; CURRENT FILING DATE: 1998-10-13  
 ; NUMBER OF SEQ ID NOS: 294  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 264  
 ; LENGTH: 907  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-170-496D-264

Query Match 8.8%; Score 303.5; DB 4; Length 907;  
 Best Local Similarity 26.1%; Pred. No. 2e-19;  
 Matches 111; Conservative 60; Mismatches 156; Indels 99; Gaps 10;  
 22 VYLTAQWMLCAIAAASAGP--QNCPSVCSC---SNQFSKVCVTRGLSEVPGQIPSN 76  
 8 VLLSLPVLQLATGSGSPRSVLLRGCPHCHCEPDGRMLLRVDCSDLGLSELPSNLSVF 67  
 77 TRYLNLMENNIQ-----MIQADTFR 96  
 68 TSYLDLSMNNISQLPNLPFLFLEELRLAGNALTYIPKGAPTGLYSLKVLMLQNNQR 127  
 97 H-----LRHLEVLQGRNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSGAFYLSK 148  
 128 HVPTALQNLRLSLQSLRLDANHSYVPPSCFSLHSLRLMLDDNALTEIPVQAFPSISA 187  
 149 LRELMLRNNDIPSYAFNRVPSLMRLDLGELKKLEYISEGAFGLFNKLYLNIGMNI 208  
 188 LOAMTLALNKHHIPDYAFGNLSLVVLLHN-NRIHSLGKKCFGLHSLLETLDLNNYL 246  
 209 KDMFN-LTPLVGLLEEMSGNHPEIRPGSPHGLSSKKLVNNSQVLSIERNAPF- 263  
 247 DEPTAIRTLSNLKELGPHSNNSIRSIPEKAFVGNPSLIIHFVDNPIQFVGRSAFOHLE 306  
 264 -----GLASVLELNLAHNNLSLPHDLFTPLRYLVLELHLHNNPNC 304  
 307 LRTITLNGASQITEPPDLTGNTANLESITLTGAQISSLPQVCNQLPNLQVLDLSYN- 362  
 305 DCDILMLAWLREYIPTNSCCORCHAPMHMRGRLVVEVDQASFCQSAPPIMDAPDLMI 364  
 363 -----LLEDLRSFVC--QKQKIDLRHNEIYEIKVDITFQ-----QLLSRLSLNL 405  
 365 SEGRMA 370  
 406 ANWKIA 411

RESULT 47  
 US-09-170-496D-278  
 ; Sequence 278, Application US/09170496D  
 ; Patent No. 6555339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Behan, Dominic P.  
 ; APPLICANT: Chalmers, Derek T.  
 ; APPLICANT: Liaw, Chen W.  
 ; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein  
 ; TITLE OF INVENTION: Receptors  
 ; FILE REFERENCE: AREN-0040  
 ; CURRENT APPLICATION NUMBER: US/09/170,496D  
 ; CURRENT FILING DATE: 1998-10-13  
 ; NUMBER OF SEQ ID NOS: 294  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 278  
 ; LENGTH: 907  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-170-496D-278

Query Match 8.8%; Score 303.5; DB 4; Length 907;  
 Best Local Similarity 26.1%; Pred. No. 2e-19;  
 Matches 111; Conservative 60; Mismatches 156; Indels 99; Gaps 10;



Sequence 278, Application US/09996243

Patent No. 647,982

GENERAL INFORMATION:

[illegible]



Prior Application Number: 60/090429  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090431  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090435  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090444  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090445  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090472  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090535  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090540  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090542  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090557  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090676  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090678  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090690  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090694  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090695  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090696  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090862  
Prior Filing Date: 1998-08-26  
Prior Application Number: 60/090863  
Prior Filing Date: 1998-06-26  
Prior Application Number: 60/091360  
Prior Filing Date: 1998-07-01  
Prior Application Number: 60/091478  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091544  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091519  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091626  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 8.2%; Score 280.5; DB 4; Length 522;  
Best Local Similarity 23.2%; Pred. No. 1.2e-17;  
Matches 108; Conservative 72; Mismatches 163; Indels 123; Gaps 17;  
30 ILC--AAATAAASAGPQPCVCSNCFKVVCTRRGLSEVPQIP8-----NTRXLNM 83  
21 VLCLGACFQMLPAAPSGPQPCRCRGL--LYCEALNLTAPNHSGLGLSLRYNSLS 78  
84 E-----NNIQIQADTFRHLHLHLEVLQGRNSIRQIEVGAFNGLAS 124  
79 ELRAGQFTGLMQLTWLYLDHNCVQGDFAQKLRVRVVELTSSNQITQLPNTTFRMPN 138  
125 LNTLELFDNLTVPISGAFYLSKRLRLWNNIESIPSYAFNRVPSLMLDLGELKKL 184  
139 LRSVDLSYVKLQALAPDIFHGLKRLTLHMAANAIFQVPRIFQDCRSLKFLDIG-YNQL 197  
185 EYISCAFEGLFNKLYNLKMCNIKMDENLPLVLGLBELEMSGNHPFPIRPGSFHGL--- 241

Db 198 KSLARNSPAGLEKLTETLHLEHNDL-----VKVNFAPFPRLI--SLHSLCLR 241  
Qy 242 -----SSLAKKLM-----VMSQVSLIERNAFDGLASIVELNLAHNNLSLPHDLFT 287  
Db 242 RKKVAIVSSLDWVWNRLEKMDLSGNEIEYMEPHVPEVPHLOSLOLDSNRLTYIEPRILN 301  
Qy 288 PLRYLVELHHRPNWNCDDILWLAWLREYIPTNSTCCGRCHAPMHRGRLVEVDQAS 347  
Db 302 SWKSLTSITLGNLMDCGRNVCALASWLSNF-----QGRY-----DGN 339  
Qy 348 FOCSAP-----FMDAPRDLNISG-----RMAELKCR-----PMSSVXWL----- 385  
Db 340 LQASPEYAQGEDVLDVAVVAPHLCDGAEPTSGHLSAVTRSDLGPPASSATTLADGGE 399  
Qy 386 -----LFGTYLSHSHRPRISVINDGT--INFESHVLL 416  
Db 400 GQHDGTFEPATVALPG--EHAENAVQIHKVVTGTMALIFSFLIV 442  
Search completed: February 5, 2004, 15:51:35  
Job time : 29 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

M protein - protein search, using sw model

un on: February 5, 2004, 15:50:36 ; Search time 39 seconds

(without alignments)  
3505.81: Million cell updates/sec

itle: US-09-989-279-229

effect score: 3440

sequence: 1 MKLLWQVTVHHHTWNAILLP.....ISEPYIIQHTKDKVQETQI 653

coring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

earched: 801455 seqs, 209382283 residues

total number of hits satisfying chosen parameters:

initial DB seq length: 0

aximum DB seq length:	200000000
aximum DB seq length:	200000000

Cost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Published Applications AA: ★

1: /cgn2\_6/prodata/2/pubpaa/US07 PUBCOMB.pcp:  
2: /cgn2\_6/prodata/2/pubpaa/US07 PUBCOMB.pcp:  
3: /cgn2\_6/prodata/2/pubpaa/US06 NEW PUB.pcp:  
4: /cgn2\_6/prodata/2/pubpaa/US06 PUBCOMB.pcp:  
5: /cgn2\_6/prodata/2/pubpaa/US07 NEW PUB.pcp:  
6: /cgn2\_6/prodata/2/pubpaa/US07 PUBCOMB.pcp:  
7: /cgn2\_6/prodata/2/pubpaa/US08 NEW PUB.pcp:  
8: /cgn2\_6/prodata/2/pubpaa/US08 PUBCOMB.pcp:  
9: /cgn2\_6/prodata/2/pubpaa/US09A PUBCOMB.pcp:  
10: /cgn2\_6/prodata/2/pubpaa/US09B PUBCOMB.pcp:  
11: /cgn2\_6/prodata/2/pubpaa/US09C PUBCOMB.pcp:  
12: /cgn2\_6/prodata/2/pubpaa/US09 NEW PUB.pcp:  
13: /cgn2\_6/prodata/2/pubpaa/US10A PUBCOMB.pcp:  
14: /cgn2\_6/prodata/2/pubpaa/US10B PUBCOMB.pcp:  
15: /cgn2\_6/prodata/2/pubpaa/US10C NEW PUB.pcp:  
16: /cgn2\_6/prodata/2/pubpaa/US10 NEW PUB.pcp:  
17: /cgn2\_6/prodata/2/pubpaa/US60 NEW PUB.pcp:  
18: /cgn2\_6/prodata/2/pubpaa/US60 PUBCOMB.pcp:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

result No.	score	Query		Length	DB	ID	Description
		Match	*				
1	3440	100.0	653	9	US-09-389-722-229		Sequence 229, App
2	3440	100.0	653	9	US-09-389-723-229		Sequence 229, App
3	3440	100.0	653	9	US-09-389-729-229		Sequence 229, App
4	3440	100.0	653	9	US-09-389-722-229		Sequence 229, App
5	3440	100.0	653	10	US-09-983-731-229		Sequence 229, App
6	3440	100.0	653	10	US-09-983-732-229		Sequence 229, App
7	3440	100.0	653	10	US-09-983-732-229		Sequence 229, App
8	3440	100.0	653	10	US-09-990-412-229		Sequence 229, App
9	3440	100.0	653	10	US-09-990-412-229		Sequence 229, App
10	3440	100.0	653	10	US-09-991-163-229		Sequence 229, App
11	3440	100.0	653	10	US-09-993-604-229		Sequence 229, App
12	3440	100.0	653	10	US-09-990-456-229		Sequence 229, App
13	3440	100.0	653	10	US-09-989-721-229		Sequence 229, App
14	3440	100.0	653	10	US-09-989-598-229		Sequence 229, App
15	3440	100.0	653	10	US-09-989-203A-229		Sequence 229, App
16	3440	100.0	653	10	US-09-989-735-229		Sequence 229, App

89	3440	100.0	653	12	US-10-145-876-438	Sequence 438, App	APPLICANT: Baker, Kevin P.
90	3440	100.0	653	12	US-10-145-959-438	Sequence 438, App	APPLICANT: Botstein, David
91	3440	100.0	653	12	US-10-146-724-438	Sequence 438, App	APPLICANT: Desnoyers, Luc
92	3440	100.0	653	12	US-10-146-725-438	Sequence 438, App	APPLICANT: Eaton, Dan L.
93	3440	100.0	653	12	US-10-146-725-438	Sequence 438, App	APPLICANT: Ferraro, Napoleone
94	3440	100.0	653	12	US-10-147-495-438	Sequence 438, App	APPLICANT: Fong, Sherman
95	3440	100.0	653	12	US-10-147-501-438	Sequence 438, App	APPLICANT: Gerber, Hanspeter
96	3440	100.0	653	12	US-10-147-504-438	Sequence 438, App	APPLICANT: Gerritsen, Mary E.
97	3440	100.0	653	12	US-10-147-506-438	Sequence 438, App	APPLICANT: Goddard, Audrey
98	3440	100.0	653	12	US-10-147-509-438	Sequence 438, App	APPLICANT: Godowski, Paul J.
99	3440	100.0	653	12	US-10-147-510-438	Sequence 438, App	APPLICANT: Grimaldi, J. Christopher
100	3440	100.0	653	12	US-10-147-511-438	Sequence 438, App	APPLICANT: Gurney, Austin L.
101	3440	100.0	653	12	US-10-147-529-438	Sequence 438, App	APPLICANT: Kljavin, Ivar J.
102	3440	100.0	653	12	US-10-152-397-438	Sequence 438, App	APPLICANT: Napier, Mary A.
103	3440	100.0	653	12	US-10-153-586-438	Sequence 438, App	APPLICANT: Pan, James
104	3440	100.0	653	12	US-10-158-783-438	Sequence 438, App	APPLICANT: Paoni, Nicholas F.
105	3440	100.0	653	12	US-10-158-786-438	Sequence 438, App	APPLICANT: Roy, Margaret Ann
106	3440	100.0	653	12	US-10-140-019-438	Sequence 438, App	APPLICANT: Stewart, Timothy A.
107	3440	100.0	653	12	US-10-140-022-438	Sequence 438, App	APPLICANT: Tamas, Daniel
108	3440	100.0	653	12	US-10-140-022-438	Sequence 438, App	APPLICANT: Tamas, Daniel
109	3440	100.0	653	12	US-10-140-861-438	Sequence 438, App	APPLICANT: Watanabe, Colin K.
110	3440	100.0	653	12	US-10-140-862-438	Sequence 438, App	APPLICANT: Williams, P. Mickey
111	3440	100.0	653	12	US-10-141-697-438	Sequence 438, App	APPLICANT: Wood, William I.
112	3440	100.0	653	12	US-10-141-700-438	Sequence 438, App	APPLICANT: Zhang, Zemin
113	3440	100.0	653	12	US-10-141-705-438	Sequence 438, App	FILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
114	3440	100.0	653	12	US-10-141-753-438	Sequence 438, App	FILE OF INVENTION: P2730P1C63
115	3440	100.0	653	12	US-10-141-758-438	Sequence 438, App	FILE REFERENCE: P2730P1C63
116	3440	100.0	653	12	US-10-142-418-438	Sequence 438, App	CURRENT APPLICATION NUMBER: US/09/989,722
117	3440	100.0	653	12	US-10-142-420-438	Sequence 438, App	CURRENT FILING DATE: 2001-11-19
118	3440	100.0	653	12	US-10-142-422-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/049787
119	3440	100.0	653	12	US-10-142-427-438	Sequence 438, App	PRIOR FILING DATE: 1997-06-16
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121	3440	100.0	653	12	US-10-145-821-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/062250
122	3440	100.0	653	12	US-10-152-531-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-12
123	3440	100.0	653	12	US-10-203-708-25	Sequence 25, Appl	PRIOR APPLICATION NUMBER: 60/065186
124	3440	100.0	653	12	US-10-127-840A-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-13
125	3440	100.0	653	12	US-10-142-424-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/065311
126	3440	100.0	653	12	US-10-142-761-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-24
127	3440	100.0	653	12	US-10-142-763-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/066770
128	3440	100.0	653	12	US-10-142-765-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-24
129	3440	100.0	653	12	US-10-142-887-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/075945
130	3440	100.0	653	12	US-10-142-888-438	Sequence 438, App	PRIOR FILING DATE: 1998-02-25
131	3440	100.0	653	12	US-10-143-034-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/078910
132	3440	100.0	653	12	US-10-143-116-438	Sequence 438, App	PRIOR FILING DATE: 1998-03-20
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135	3440	100.0	653	12	US-10-145-015-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/084600
136	3440	100.0	653	12	US-10-145-090-438	Sequence 438, App	PRIOR FILING DATE: 1998-05-07
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							PRIOR APPLICATION NUMBER: 60/088326
							PRIOR FILING DATE: 1998-06-04
							PRIOR APPLICATION NUMBER: 60/088167

## ALIGNMENTS

RESULT 1  
US-09-989-722-229  
Sequence 229, Application US/09989722  
Patent No. US20020072067A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.

PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 9; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293; Mismatches 0; Indels 0; Gaps 0;  
Matches 653; Conservative 0;

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Qy	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRLEWLRNPNIESIPSYAFNRPVPSLMDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRLEWLRNPNIESIPSYAFNRPVPSLMDLGE	180
Qy	181	LKLEVISGAFEGFLFNLYLNKCNHKKMNLPLVCLERLEMSGNHFFPIRQCSFHG	240
Db	181	LKLEVISGAFEGFLFNLYLNKCNHKKMNLPLVCLERLEMSGNHFFPIRQCSFHG	240
Qy	241	LSSLKLLWVNSQVSLIERNAPDGLASLVELALNRNSSLPHDLFTPLRYLVEHLHN	300

241 LSSLKCLWVNSQVSLIERNADGLASLVELNLAHNNVSSLPHDLFTPLRYLVELHLHN 300  
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301 PWNCCDILMLAWLWRYIITNSTCCGRCHAPMHRGRYLVEVDQASFOCSAPFIMDAPR 360  
361 DLNISEGRMAELKCRTPPMSVKVLLPNGTVLSHASHRPRISVLNDGTLNFSHVLLSDTG 420  
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421 VYTCWTVNAGNSNASYLVNVAELNNTSYSPFTTVVETTSISEDTTRKYKVPVPTS 480  
421 VYTCWTVNAGNSNASYLVNVAELNNTSYSPFTTVVETTSISEDTTRKYKVPVPTS 480  
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601 IHDHINVTYKPARGAHWENSLGNSLHPTVTITISEPYIIQTHTKDKVOETQI 653  
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RESULT 2

US-09-989-723-229

Sequence 229, Application US/09989723

Patent No. US20020072092A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gottlieb, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Waranabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2730P1062

CURRENT APPLICATION NUMBER: US/09/989,723

PRIOR FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

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 PRIOR APPLICATION NUMBER: 60/091478  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02

; PRIOR APPLICATION NUMBER: 60/091626  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091633  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 9; length 653;  
 Best local similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLQVTVHHHTWNAILLPFVYLTQAVMLCAATAAASAGPNCPCSVCSNQSRYV 60  
 Db 1 MKLLQVTVHHHTWNAILLPFVYLTQAVMLCAATAAASAGPNCPCSVCSNQSRYV 60

Qy 61 CTRRGLSEVPQGIPTNRYLNLMMNNIOMIADTFRLHLEVLQJLGRNSIRQIEVAFN 120  
 Db 61 CTRRGLSEVPQGIPTNRYLNLMMNNIOMIADTFRLHLEVLQJLGRNSIRQIEVAFN 120

Qy 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLWLNPNPIESIPSYAFNRVPSLMBLDLGE 180  
 Db 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLWLNPNPIESIPSYAFNRVPSLMBLDLGE 180

Qy 181 LKXLEYISGAFEGLEFNKLYNLGMKNIKOMNLTPLVGLSELEMSGNHFFRIRPGSFHG 240  
 Db 181 LKXLEYISGAFEGLEFNKLYNLGMKNIKOMNLTPLVGLSELEMSGNHFFRIRPGSFHG 240

Qy 241 LSSLLKGLWYNQSVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
 Db 241 LSSLLKGLWYNQSVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300

Qy 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPWHRGRYLVVDQASFOCSAPFIMDAPR 360  
 Db 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPWHRGRYLVVDQASFOCSAPFIMDAPR 360

Qy 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTVLASHARPRISVLNDGTINFSHVLLSDTG 420  
 Db 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTVLASHARPRISVLNDGTINFSHVLLSDTG 420

Qy 421 VYTCMVTVAGNSNASAYLNVTABNTSNYSFFTVTVETTEISPEDTTRKYKVPPTIS 480  
 Db 421 VYTCMVTVAGNSNASAYLNVTABNTSNYSFFTVTVETTEISPEDTTRKYKVPPTIS 480

Qy 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPATDITDKMQTSLDEVKMTTKIIIGCFVAVTLLA 540  
 Db 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPATDITDKMQTSLDEVKMTTKIIIGCFVAVTLLA 540

Qy 541 AAMLIVFYKLRKHQRSTVTAARTVBIIQVDEDIPAAATAAAPSQVSGEGAVLPT 600  
 Db 541 AAMLIVFYKLRKHQRSTVTAARTVBIIQVDEDIPAAATAAAPSQVSGEGAVLPT 600

Qy 601 IHDHINYNTYKPAHGAHWTENSIGNSLPTVTIISEPVIIIOHTKDKVQETQI 653  
 Db 601 IHDHINYNTYKPAHGAHWTENSIGNSLPTVTIISEPVIIIOHTKDKVQETQI 653

RESULT 3  
 US-09-989-279-229  
 ; Sequence 229, Application US/09989279  
 ; Patent No. US20020072496A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan I.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C56  
CURRENT APPLICATION NUMBER: US/09/989,279  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/0493787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472

Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090535  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090540  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090542  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090557  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090576  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090578  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090590  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090694  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090695  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090696  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090862  
Prior Filing Date: 1998-06-26  
Prior Application Number: 60/090863  
Prior Filing Date: 1998-06-26  
Prior Application Number: 60/091360  
Prior Filing Date: 1998-07-01  
Prior Application Number: 60/091478  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091544  
Prior Filing Date: 1998-07-01  
Prior Application Number: 60/091519  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091626  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 3440; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLQVTHHTWNAILLPFVYLTAQWILCAALAAASAGPQCPSCVCSNQFSKVV 60  
1 MKLLQVTHHTWNAILLPFVYLTAQWILCAALAAASAGPQCPSCVCSNQFSKVV 60  
61 CTRRGLSEVPQGPISNTRYLNMENNIOQADTFRHLHLHLVLQGRNSIROIEVGAFN 120  
61 CTRRGLSEVPQGPISNTRYLNMENNIOQADTFRHLHLHLVLQGRNSIROIEVGAFN 120  
121 GLASLNTLELFDNLWLTVPISGAFYLSKRLWLNRPISPSVAFNRPVSLMLDLGE 180  
121 GLASLNTLELFDNLWLTVPISGAFYLSKRLWLNRPISPSVAFNRPVSLMLDLGE 180  
181 LKLEVTISEGAFGLFNKLYLNGMCKNDMPNLTPLVGLLESLNGNHPFPIRPGSPHG 240  
181 LKLEVTISEGAFGLFNKLYLNGMCKNDMPNLTPLVGLLESLNGNHPFPIRPGSPHG 240  
241 LSLKLLWVNSQVSLIERNAPGLASLVELNLAHNLSSLPDLFTPLRYLVELLHLHN 300  
241 LSLKLLWVNSQVSLIERNAPGLASLVELNLAHNLSSLPDLFTPLRYLVELLHLHN 300  
301 PWCDCDILNLWLRLEYIFTNSTCCGRCHAPMHRGRYLVEDQASFCQSAFFIMDAER 360  
301 PWCDCDILNLWLRLEYIFTNSTCCGRCHAPMHRGRYLVEDQASFCQSAFFIMDAER 360  
361 DLNISGRMAELKCRTPPMSSVKMLLPNGTIVLSHSHRPRISVLDGTLNFSHVLLSDTG 420

Db 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTIVLSHSHRPRISVLDGTLNFSHVLLSDTG 420  
Qy 421 VYTCWTVNAGNSNASAYLNVSTAEIATSNYSFFTTVTVEITEISPEDTTRKYKVPPTTS 480  
Db 421 VYTCWTVNAGNSNASAYLNVSTAEIATSNYSFFTTVTVEITEISPEDTTRKYKVPPTTS 480  
Qy 481 TGYQPAYTSTTVLIQTTRVPKQAVPATDTTDRKQTSIDVEMKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLIQTTRVPKQAVPATDTTDRKQTSIDVEMKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVVLEPT 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVVLEPT 600  
Qy 601 IHDHINYNTYKPAHGAHMTENSLSLHPTVTITSEPIYIIOTHTKQKQVETQI 653  
Db 601 IHDHINYNTYKPAHGAHMTENSLSLHPTVTITSEPIYIIOTHTKQKQVETQI 653

RESULT 4  
US-09-989-727-229  
Sequence 229, Application US/09989727  
Patent No. US20020072497A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC65  
CURRENT APPLICATION NUMBER: US/09/989,727  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/065311  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106



PRIOR APPLICATION NUMBER: 60/089801	PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089807	PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/091544	PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978	PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982	PRIOR FILING DATE: 1998-07-07

PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

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Query Match      100.0%; Score 3440; DB 9; Length 653;
Best Local Similarity 100.0%; Pred. NO. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0
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1	MKLLWQVTVZHHHTWNAILLPFVYLTAQWILCAATAAAASAGPQNCSSVCSCNQSVKVV	60
1	MKLLWQVTVZHHHTWNAILLPFVYLTAQWILCAATAAAASAGPQNCSSVCSCNQSVKVV	60
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61	CTTRGLSEVPQGPSNTRYLNLMMNNIOMIQADTPRHLHLLEVLQLGNSIRQIEVGAFN	120
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121	GLASINTLELFDNWLTVIPSGAPEYLSKLRELALNNNDPISIPSAFNRVPDSMRJLDLGE	180
181	LKCLEYISEGAFEGFLNLYLNLGMCNIXDMNLPPLVGLSELEMSGNHPPPIRPGSPFH	240
181	LKCLEYISEGAFEGFLNLYLNLGMCNIXDMNLPPLVGLSELEMSGNHPPPIRPGSPFH	240
241	LSSLKCUWVNSQVSLIERNAPDGLASLYELALNHNLSLPHDLPPLRYLYVELLHLHN	300
241	LSSLKCUWVNSQVSLIERNAPDGLASLYELALNHNLSLPHDLPPLRYLYVELLHLHN	300
301	PWNCDCOILMLAWLREYIPTNSTCCGRCHAPMEHGRYLVVEVDQASFOCSAPFINDAPR	360
301	PWNCDCOILMLAWLREYIPTNSTCCGRCHAPMEHGRYLVVEVDQASFOCSAPFINDAPR	360
361	DLNTSEGEMAECLKRTPMSSVKWLLPNCVTLSHASRHPRISSLVNDGTNLNFSHVLSDTG	420
361	DLNTSEGEMAECLKRTPMSSVKWLLPNCVTLSHASRHPRISSLVNDGTNLNFSHVLSDTG	420
421	VYTCWNTVAGNSNASHLYNVSTAEALNHSXFFTTVIVETRIISPEDTRTKYKVPPTTS	480
421	VYTCWNTVAGNSNASHLYNVSTAEALNHSXFFTTVIVETRIISPEDTRTKYKVPPTTS	480
481	TGYOPAYTTSTVLQITRVPKQVAVPAIDTIDKMQTSLDEWMMTKIILIGCFVAVTLIA	540
481	TGYOPAYTTSTVLQITRVPKQVAVPAIDTIDKMQTSLDEWMMTKIILIGCFVAVTLIA	540
541	RAMLIVFKLZKXHQSSVTIARTVEIILQVDEDIPAAATSAATAASGVSGEVAVLTPT	600
541	RAMLIVFKLZKXHQSSVTIARTVEIILQVDEDIPAAATSAATAASGVSGEVAVLTPT	600
601	IHDHINYNTKPAHGAHWNTENSGNSLHPFTVTIISPYIIQTHTKDKVQETQI	653
601	IHDHINYNTKPAHGAHWNTENSGNSLHPFTVTIISPYIIQTHTKDKVQETQI	653

RESULT 5  
US-09-989-731-229  
Sequence 229, Application US/09989731  
Patent No. US20020103125A1  
GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Denoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertszen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaud, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Naqvir, Mary A.

1 PRIOR FILING DATE: 1998-06-10  
2 PRIOR APPLICATION NUMBER: 60/088810  
3 PRIOR FILING DATE: 1998-06-10  
4 PRIOR APPLICATION NUMBER: 60/088824  
5 PRIOR FILING DATE: 1998-06-10  
6 PRIOR APPLICATION NUMBER: 60/088826  
7 PRIOR FILING DATE: 1998-06-10  
8 PRIOR APPLICATION NUMBER: 60/088858  
9 PRIOR FILING DATE: 1998-06-11  
10 PRIOR APPLICATION NUMBER: 60/088861  
11 PRIOR FILING DATE: 1998-06-11  
12 PRIOR APPLICATION NUMBER: 60/088876  
13 PRIOR FILING DATE: 1998-06-11  
14 PRIOR APPLICATION NUMBER: 60/089105  
15 PRIOR FILING DATE: 1998-06-12  
16 PRIOR APPLICATION NUMBER: 60/089440  
17 PRIOR FILING DATE: 1998-06-16  
18 PRIOR APPLICATION NUMBER: 60/089512  
19 PRIOR FILING DATE: 1998-06-16  
20 PRIOR APPLICATION NUMBER: 60/089514  
21 PRIOR FILING DATE: 1998-06-16  
22 PRIOR APPLICATION NUMBER: 60/089532  
23 PRIOR FILING DATE: 1998-06-17  
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25 PRIOR FILING DATE: 1998-06-17  
26 PRIOR APPLICATION NUMBER: 60/089598  
27 PRIOR FILING DATE: 1998-06-17  
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32 PRIOR APPLICATION NUMBER: 60/089653  
33 PRIOR FILING DATE: 1998-06-17  
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26 PRIOR FILING DATE: 1998-07-01  
27 PRIOR APPLICATION NUMBER: 60/091478  
28 PRIOR FILING DATE: 1998-07-02  
29 PRIOR APPLICATION NUMBER: 60/091544  
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35 PRIOR APPLICATION NUMBER: 60/091633  
36 PRIOR FILING DATE: 1998-07-02  
37 PRIOR APPLICATION NUMBER: 60/091978  
38 PRIOR FILING DATE: 1998-07-07  
39 PRIOR APPLICATION NUMBER: 60/091982  
40 PRIOR FILING DATE: 1998-07-07  
41 PRIOR APPLICATION NUMBER: 60/092182  
42 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MLLMQVTVHHTWNAILLFVYLTQVWILCAIAAASAGPQNCPSVCSCSNQPSKV 60  
Qy 61 CTRGLSEVPQGIPTNRYNLNMENNIQIADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
Db 61 CTRGLSEVPQGIPTNRYNLNMENNIQIADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
Qy 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRELWLNRPITESPVAFNRPVSLMRDLGE 180  
Db 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRELWLNRPITESPVAFNRPVSLMRDLGE 180  
Qy 181 LKLEVIISGAFEGLENKVLNLMCNIKDMNLTPLVGLLELEMSGNHFFETIRGSEHG 240  
Db 181 LKLEVIISGAFEGLENKVLNLMCNIKDMNLTPLVGLLELEMSGNHFFETIRGSEHG 240  
Qy 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPEDEFTPLRYLVLVHLHNN 300  
Db 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPEDEFTPLRYLVLVHLHNN 300  
Qy 301 FWCDCDILWLAWLWREYIPTNSTCCGRCHAPMHRGRYLVVDQASQCSAPFFIMDAPR 360  
Db 301 FWCDCDILWLAWLWREYIPTNSTCCGRCHAPMHRGRYLVVDQASQCSAPFFIMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKVLLPNGTIVLSHARPRISVLNDGTINFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKVLLPNGTIVLSHARPRISVLNDGTINFSHVLLSDTG 420  
Qy 421 VYTCMVTVAGNSNASAYLVNSTABLNTSNYSFFTTVTVTETETESPDTRRYKVPPTTS 480  
Db 421 VYTCMVTVAGNSNASAYLVNSTABLNTSNYSFFTTVTVTETETESPDTRRYKVPPTTS 480

481 TGYQPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVAKTKIIIGCFVAVTLLA 540  
481 TGYQPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVAKTKIIIGCFVAVTLLA 540  
541 RANLIVFKLRKRCQSTVTAARTWEIIIOVDEIDPAATSAATRAAPSCVSGEAVLPT 600  
541 RANLIVFKLRKRCQSTVTAARTWEIIIOVDEIDPAATSAATRAAPSCVSGEAVLPT 600  
601 IHDHINTYNTYPAHGAHWHTENSLNSLHPTVTVTWISFPYIIQTHTKDKVQETQI 653  
601 IHDHINTYNTYPAHGAHWHTENSLNSLHPTVTVTWISFPYIIQTHTKDKVQETQI 653

## ISULT 6

1-09-989-732-229

Sequence 229, Application US/09989732

Patent No. US20020123463A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavini, Ivan J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C57  
CURRENT APPLICATION NUMBER: US/09/989,732

PRIOR FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

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 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09  
 ; PRIOR APPLICATION NUMBER: 60/092182

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Qy	121	GLASLNTLLEFDNMLTVLPSCGAPYLSKRLMLRNNPTEISPYAPNRVPSLRLDLGE	180
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Qy	181	LKKLEYISGGAPEGLPNLKYLNGLMGNCKMPNLTPLVGLLEEMSGNHFFPIRPGSPHG	240
Db	181	LKKLEYISGGAPEGLPNLKYLNGLMGNCKMPNLTPLVGLLEEMSGNHFFPIRPGSPHG	240
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Db	601	IHDHINNTYKPAHGAHWHTENS:IGNSLHPFTVTII:SEPVYI:QTHTKDKQVQETQI	653

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0;

APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS Encoding the Same  
FILE REFERENCE: P2730PIC15  
CURRENT APPLICATION NUMBER: US/09/991,073  
PRIORITY FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR APPLICATION NUMBER: 60/090690

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 M K L W Q V T V H H T W N A I L P F V Y L T A Q V W I L C A A I A A A S A G P Q N C P S V C S C S N Q F S K V 60  
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61 C T R G L S E V F Q G I P S N T R Y L N L N E N N I O M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
61 C T R G L S E V F Q G I P S N T R Y L N L N E N N I O M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
121 G L A S L N T L E F D N W L T V P S G A F E Y L S K R E L M L R N N P I E S P V A F N R V P S L M R L D L G E 180  
121 G L A S L N T L E F D N W L T V P S G A F E Y L S K R E L M L R N N P I E S P V A F N R V P S L M R L D L G E 180  
181 L K L E Y I S E G A F G L E N L K Y L N G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240  
181 L K L E Y I S E G A F G L E N L K Y L N G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240  
241 L S S L K C L W A N S Q V S L I E R N A F D G L A S L V E L N L A H N L S S L P E D L F T P L R Y L V E L H L H N 300  
241 L S S L K C L W A N S Q V S L I E R N A F D G L A S L V E L N L A H N L S S L P E D L F T P L R Y L V E L H L H N 300  
301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H K M G R Y L V E V D Q A S F Q C S A F F I M D A P R 360  
301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H K M G R Y L V E V D Q A S F Q C S A F F I M D A P R 360  
361 D L N I S G R M A E L K C R T P P M S S V K W L P N G T V L S H A S R H P R I S V L N D G T L N S H V L L S T G 420  
361 D L N I S G R M A E L K C R T P P M S S V K W L P N G T V L S H A S R H P R I S V L N D G T L N S H V L L S T G 420  
421 V Y T C W T N V A G N S A S Y L N V S T A E L N T S N Y S F F T V T V T E T T E I S P E D T T R K Y K P V P T T S 480  
421 V Y T C W T N V A G N S A S Y L N V S T A E L N T S N Y S F F T V T V T E T T E I S P E D T T R K Y K P V P T T S 480  
481 T G Y Q P A Y T T S T V L I G T T V P K O V A P A D T T D K M Q T S L D E V M K T K I I I G C F V A V A T L L A 540  
481 T G Y Q P A Y T T S T V L I G T T V P K O V A P A D T T D K M Q T S L D E V M K T K I I I G C F V A V A T L L A 540  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

QY 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
Db 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

RESULT 8

US-09-990-442-229  
; Sequence 229, Application US/09990442  
; Patent No. US20020132252A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Actins Encoding the Same  
; FILE REFERENCE: P2730F1C8  
; CURRENT APPLICATION NUMBER: US/09/990,442  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLLQWVTVHHHTWNAILLPFVYLTQVWILCAATAAASAGPQCSCSNQFSSKV 60

DB 1 MLLQWVTVHHHTWNAILLPFVYLTQVWILCAATAAASAGPQCSCSNQFSSKV 60

QY 61 CTRGLSEVPOQIPSNTRYLMNENNIQMIQADTFRHLHLLEVLQLCGNSIRQIEVGAFN 120



b 61 CTRGLSEVPOGIPENTRYMLMENNNTOMIQADTFRLHLHLHLVLQGRNSIRQIEVGAFN 120  
y 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLMLRNPNPIESIPSYAFNRVPSLMLDLGE 180  
b 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLMLRNPNPIESIPSYAFNRVPSLMLDLGE 180  
y 181 LKLELYISEGAFEGFNLYNLGMCNIDKMPNLTPLVGLLELXSGNHPFPIRPGSPHG 240  
b 181 LKLELYISEGAFEGFNLYNLGMCNIDKMPNLTPLVGLLELXSGNHPFPIRPGSPHG 240  
y 241 LSSLLKLVWNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDFTPLRYLYVLEHLHN 300  
b 241 LSSLLKLVWNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDFTPLRYLYVLEHLHN 300  
y 301 PWCDCDILMLAWLREVIPNTNSCCGRCHAPWEMGRVYVEVDQASFOCSAPFIMDAPR 360  
b 301 PWCDCDILMLAWLREVIPNTNSCCGRCHAPWEMGRVYVEVDQASFOCSAPFIMDAPR 360  
y 361 DLNISEGMAELKRTTPMSVXVLLPNGTVLSHAGRHPRISVENDGTNFSHVLLSDTG 420  
b 361 DLNISEGMAELKRTTPMSVXVLLPNGTVLSHAGRHPRISVENDGTNFSHVLLSDTG 420  
y 421 VYTCWNTVAGNSASAYLVNSTAELNTSNYSFPTTVTVEIISPEDTTRKYKVPPTS 480  
b 421 VYTCWNTVAGNSASAYLVNSTAELNTSNYSFPTTVTVEIISPEDTTRKYKVPPTS 480  
y 481 TGYOPAYTSTVLIOTRVPQVAVPATDTTKMOTSDENVKTKIIGCFVAVTLLA 540  
b 481 TGYOPAYTSTVLIOTRVPQVAVPATDTTKMOTSDENVKTKIIGCFVAVTLLA 540  
y 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEP 600  
b 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEP 600  
y 601 IHDHNTVNTKPAKAGAKWTENSGNSLHPTVTIISPEYIIQTHKDKVQETQI 653  
b 601 IHDHNTVNTKPAKAGAKWTENSGNSLHPTVTIISPEYIIQTHKDKVQETQI 653

## RESULT 9

US-09-991-163-229

Sequence 229, Application US/09991163

Patent No. US20020132253A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrata, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tamas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730DIC17

CURRENT APPLICATION NUMBER: US/09/991,163

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

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PRIOR FILING DATE: 1997-10-17

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 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
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 DB 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V A F N 120

QY 121 G L A S L N T L E L F D N W L T V I P S G A F Y L S K L R E L M L R N N P I E S I F S Y A F N R V P S L M R L D L G E 180  
 DB 121 G L A S L N T L E L F D N W L T V I P S G A F Y L S K L R E L M L R N N P I E S I F S Y A F N R V P S L M R L D L G E 180

QY 181 L K L E Y I S E G A F E G L F N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H P E R P G S F H G 240  
 DB 181 L K L E Y I S E G A F E G L F N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H P E R P G S F H G 240

QY 241 L S S L K L W M M S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H D L F T P L Y L V E L H L H N 300  
 DB 241 L S S L K L W M M S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H D L F T P L Y L V E L H L H N 300

QY 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
 DB 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360

QY 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S H P R I S V L N D G T L N F S H V L L S D T G 420  
 DB 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S H P R I S V L N D G T L N F S H V L L S D T G 420

QY 421 V Y T C W T N V A G N S N A S A Y L N V S T A E L N T S N Y S P F T V T V E T T I S P E D I T T R K Y K P P T T S 480  
 DB 421 V Y T C W T N V A G N S N A S A Y L N V S T A E L N T S N Y S P F T V T V E T T I S P E D I T T R K Y K P P T T S 480

QY 481 T G Y O P A V T T S T V L I O T T R V P K O V A V P A T D T T D K M O T S L D E V M K T K I I I C C F V A V T L L A 540  
 DB 481 T G Y O P A V T T S T V L I O T T R V P K O V A V P A T D T T D K M O T S L D E V M K T K I I I C C F V A V T L L A 540

QY 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I O V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
 DB 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I O V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

QY 601 I H D H I N T N T Y K P A R G A H W T E N S I G N S L H P T V T T I S R P Y I I O T H T K D K V O T Q I 653  
 DB 601 I H D H I N T N T Y K P A R G A H W T E N S I G N S L H P T V T T I S R P Y I I O T H T K D K V O T Q I 653

RESULT 10

S-09-993-604-229

Sequence 229, Application US/09993604  
Patent No. US20020137075A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Pan, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tomas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS Encoding the Same  
FILE REFERENCE: P27301P1C25  
CURRENT APPLICATION NUMBER: US/09/993,604  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1998-06-04

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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. NO. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MLLQVTVVHEHTWNAILLPPVYLTAAQWILCAAIAAASAGPQNCPSVCSNQSFKVV 60  
1 MLLQVTVVHEHTWNAILLPPVYLTAAQWILCAAIAAASAGPQNCPSVCSNQSFKVV 60  
61 CTRGLSEVPQGISNRYLNMENNIONQADTFRLHLEVLQGRNSIRQIEVGA FN 120  
61 CTRGLSEVPQGISNRYLNMENNIONQADTFRLHLEVLQGRNSIRQIEVGA FN 120  
121 GLASINTLELFDNLTWIPSGAFYLSKLRRLNRPISIPYAFNRVPSLMRLDGE 180  
121 GLASINTLELFDNLTWIPSGAFYLSKLRRLNRPISIPYAFNRVPSLMRLDGE 180  
181 LKXLEYISGAFEGFLFNKLYNLGNKCNKMPNLTPLVGLLELEMSGNHFFPIRPGSFHG 240

Db 181 LKXLEYISGAFEGFLFNKLYNLGNKCNKMPNLTPLVGLLELEMSGNHFFPIRPGSFHG 240  
Qy 241 LSSKKLWNNQSVSLIERNAPDGLASIVELANLNLSLPHDLFTPLRYLVLEHLHNN 300  
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Qy 301 PNWCDIILWNLWMLREYIPTNSTCCGRCHAPMGRGRLYVEVDQASQCSAPFIMDAPR 360  
Db 301 PNWCDIILWNLWMLREYIPTNSTCCGRCHAPMGRGRLYVEVDQASQCSAPFIMDAPR 360  
Qy 361 DLNISRGRMAELKCRTPPMSSVKWLLPNGVNLSHASRPRISVLNDGTLNFSHVLSDTG 420  
Db 361 DLNISRGRMAELKCRTPPMSSVKWLLPNGVNLSHASRPRISVLNDGTLNFSHVLSDTG 420  
Qy 421 VYTCMVNTVAGNSNASAYLVNSTAEINTSNYSFFTTVTVEITEISPEDTRKYPVPTTS 480  
Db 421 VYTCMVNTVAGNSNASAYLVNSTAEINTSNYSFFTTVTVEITEISPEDTRKYPVPTTS 480  
Qy 481 TGVOPAYTTSTTVLIQTTTRVPKQAVPAATDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
Db 481 TGVOPAYTTSTTVLIQTTTRVPKQAVPAATDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEDIIPAATAAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEDIIPAATAAATAAPSGVSGEAVLPT 600  
Qy 601 IEDHINYNTRYKPAHGAHTENSLSLHPTTTTISEPYIIQTHTKDKVQETQI 653  
Db 601 IEDHINYNTRYKPAHGAHTENSLSLHPTTTTISEPYIIQTHTKDKVQETQI 653

RESULT 11  
US-09-990-456-229  
; Sequence 229, Application US/09990456  
; Patent No. US20020137890A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerzitsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavil, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC22  
; CURRENT APPLICATION NUMBER: US/09/990,456  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311

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2	PRIOR FILING DATE: 1998-06-17
3	PRIOR APPLICATION NUMBER: 60/089538
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6	PRIOR FILING DATE: 1998-06-17
7	PRIOR APPLICATION NUMBER: 60/089599
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9	PRIOR APPLICATION NUMBER: 60/089600
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11	PRIOR APPLICATION NUMBER: 60/089653
12	PRIOR FILING DATE: 1998-06-17
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17	PRIOR APPLICATION NUMBER: 60/089908
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21	PRIOR APPLICATION NUMBER: 60/089948
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31	PRIOR APPLICATION NUMBER: 60/090349
32	PRIOR FILING DATE: 1998-06-23
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34	PRIOR FILING DATE: 1998-06-23
35	PRIOR APPLICATION NUMBER: 60/090429
36	PRIOR FILING DATE: 1998-06-24
37	PRIOR APPLICATION NUMBER: 60/090431
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39	PRIOR APPLICATION NUMBER: 60/090435
40	PRIOR FILING DATE: 1998-06-24
41	PRIOR APPLICATION NUMBER: 60/090444
42	PRIOR FILING DATE: 1998-06-24
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59	PRIOR APPLICATION NUMBER: 60/091360
60	PRIOR FILING DATE: 1998-07-01
61	PRIOR APPLICATION NUMBER: 60/091478

PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLMQVTHHTWNAILLPFTVLTQVWILCAATAAAASAGPQNCPSVCSCSNQFQKV 60  
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3-09-989-721-229  
Sequence 229, Application US/09989721  
Patent No. US20020142961A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David

Desnoyers, Luc  
Ratton, Dan L.  
Ferrara, Napoleone  
Fong, Sherman  
Gerber, Hanspeter  
Gerritsen, Mary E.  
Goddard, Audrey  
Godowski, Paul J.  
Grimaldi, J. Christopher  
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Kljasin, Ivar J.  
Napier, Mary A.  
Pan, James  
Paoni, Nicholas F.  
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Tumas, Daniel  
Watanabe, Colin K.  
Williams, P. Mickey  
Wood, William I.  
Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC55  
CURRENT APPLICATION NUMBER: US/09/989,721  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293; Mismatches 0; Indels 0; Gaps 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 61 CTRGLSEVPQGIPTNRYLNLNMENNIQMIQADTFRLHLHLVLQGRNSIRQIEVGAFN 120  
 QY 121 GLASINTLELFDNWLTVIPSGAPEYLSKRLRLNNPIESIPSYAFNRVPSLMRLDGE 180  
 DB 121 GLASINTLELFDNWLTVIPSGAPEYLSKRLRLNNPIESIPSYAFNRVPSLMRLDGE 180  
 QY 181 LKLEYISEGAFGLFNLYLNLGMCNIKDMENLPLVGLLELMSGNHFFPIRPGSPHG 240  
 DB 181 LKLEYISEGAFGLFNLYLNLGMCNIKDMENLPLVGLLELMSGNHFFPIRPGSPHG 240  
 QY 241 LSSUKLWVNSQVSLIERNAFDGLASIVELNLAHNNLSSLPDLFTPLRYLVLHLHNN 300  
 DB 241 LSSUKLWVNSQVSLIERNAFDGLASIVELNLAHNNLSSLPDLFTPLRYLVLHLHNN 300



301 PNNCDLILAWLWREYIPTNSTCCGRCHAPMHEGRVLYVEVDASFOCSAPFIMDAPR 360  
 b PNNCDLILAWLWREYIPTNSTCCGRCHAPMHEGRVLYVEVDASFOCSAPFIMDAPR 360  
 361 DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIISVLNDGTLNFSHVLLSDTG 420  
 b DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIISVLNDGTLNFSHVLLSDTG 420  
 421 VTCMTVTVAGNSASAYLNVSATLNTSNYSFFTTVTVTETTESPDTTKYKVPVPTS 480  
 c VTCMTVTVAGNSASAYLNVSATLNTSNYSFFTTVTVTETTESPDTTKYKVPVPTS 480  
 481 TGQPAYTTSTVLITQTRVPKQVAVPATDTDXQWTSLEDEVMKTKIIIGCFVAVTLLA 540  
 c TGQPAYTTSTVLITQTRVPKQVAVPATDTDXQWTSLEDEVMKTKIIIGCFVAVTLLA 540  
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RESULT 13

S-09-992-598-229  
 Sequence 229, Application US/09992598  
 Patent No. US20020160384A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C20  
 CURRENT APPLICATION NUMBER: US/09/992,598  
 CURRENT FILING DATE: 2001-11-14  
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 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

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 DB 241 LSSLKLLWVNSQVSLIERNAFDGLASLYELNLAHNLSLPHDLFTPLRYLYVELHLHN 300  
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 DB 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHEGRYLVVEVDQASFOCSAFFIMDAPE 360  
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 DB 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRHPRI SVLNDGTINFHVLSDTG 420  
 QY 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFFTTVTVTVEITSPEDTRKYKVPPTTS 480  
 DB 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFFTTVTVTVEITSPEDTRKYKVPPTTS 480  
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 QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVLPT 600  
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 ; Patent No. US20020177164A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
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 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
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APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P27301056  
CURRENT APPLICATION NUMBER: US/09/989,293A  
CURRENT FILING DATE: 2001-11-20  
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PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
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PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
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PRIOR APPLICATION NUMBER: 60/090435  
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PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535

PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
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PRIOR APPLICATION NUMBER: 60/090557  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
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PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MLLWQVTVHHHTNAILLBFVLTQWILCAIAAASAGPQPCVSCSNQFSKV 60  
1 MLLWQVTVHHHTNAILLBFVLTQWILCAIAAASAGPQPCVSCSNQFSKV 60  
61 CTRRGLEVPQGISNTRYLNLMENNIIQIADTFRHLHLEVLQGRNSIRQIEVGAFN 120  
61 CTRRGLEVPQGISNTRYLNLMENNIIQIADTFRHLHLEVLQGRNSIRQIEVGAFN 120  
121 GLASLNTLEFDWNLTVISGAPFYLKRELNWNNPIESIPYAFNRPVSLMLDLGE 180  
121 GLASLNTLEFDWNLTVISGAPFYLKRELNWNNPIESIPYAFNRPVSLMLDLGE 180  
181 LKXLEYISGAFGLFNLYLNGMCNIIKMPNLTPLVGLSELENSGNHFPFIRPGSHG 240  
181 LKXLEYISGAFGLFNLYLNGMCNIIKMPNLTPLVGLSELENSGNHFPFIRPGSHG 240  
241 LSSKKLWVNSQVSIERNADGLASVLELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
241 LSSKKLWVNSQVSIERNADGLASVLELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
301 PWNCDIDILWNLWREYIPTNSTCCGRCHAPWHRGRYLVVDQASQCSAPFIMDAPR 360  
301 PWNCDIDILWNLWREYIPTNSTCCGRCHAPWHRGRYLVVDQASQCSAPFIMDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNTGVLSHASRHPRIISVLNDGTLNFSHLLSDTG 420  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNTGVLSHASRHPRIISVLNDGTLNFSHLLSDTG 420

QY 421 VYTCMVTVVAGNSASAYLVNSTAEIANTSYSPFTTVTVVETETISPDTRKXKVPVPTTS 480  
DB 421 VYTCMVTVVAGNSASAYLVNSTAEIANTSYSPFTTVTVVETETISPDTRKXKVPVPTTS 480  
QY 481 TGYQPAYTTSITVLITQTRVPKQVAVPATDUTDQKQTSLEDEVMATTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSITVLITQTRVPKQVAVPATDUTDQKQTSLEDEVMATTKIIIGCFVAVTLLA 540  
QY 541 HAMLIVFYKLRKHQRSTVTAARTVBIIOVDEIPAAATSAATAAPSGVSGEGAVVLP 600  
DB 541 HAMLIVFYKLRKHQRSTVTAARTVBIIOVDEIPAAATSAATAAPSGVSGEGAVVLP 600  
QY 601 IHDHINVTYKPAHGAHWNTENSLGNSLHPVTVTITSEPIIQTHTKDKVQVTOI 653  
DB 601 IHDHINVTYKPAHGAHWNTENSLGNSLHPVTVTITSEPIIQTHTKDKVQVTOI 653

## RESULT 15

US-09-989-735-229  
Sequence 229, Application US/09989735  
Publication No. US20020193299A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrata, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geurtsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P27301C61  
CURRENT APPLICATION NUMBER: US/09/989,735  
PRIOR FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607

PRIOR APPLICATION NUMBER:	60/089907
PRIOR FILING DATE:	1998-06-18
PRIOR APPLICATION NUMBER:	60/089908
PRIOR FILING DATE:	1998-06-18
PRIOR APPLICATION NUMBER:	60/089947
PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION NUMBER:	60/089948
PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION NUMBER:	60/089952
PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION NUMBER:	60/090246
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PRIOR FILING DATE:	1998-06-22
PRIOR APPLICATION NUMBER:	60/090254
PRIOR FILING DATE:	1998-06-22
PRIOR APPLICATION NUMBER:	60/090349
PRIOR FILING DATE:	1998-06-23
PRIOR APPLICATION NUMBER:	60/090355
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PRIOR APPLICATION NUMBER:	60/090429
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PRIOR APPLICATION NUMBER:	60/090435
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090444
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090445
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090472
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090535
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090540
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PRIOR APPLICATION NUMBER:	60/090696
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PRIOR APPLICATION NUMBER:	60/090863
PRIOR FILING DATE:	1998-06-26
PRIOR APPLICATION NUMBER:	60/091360
PRIOR FILING DATE:	1998-07-01
PRIOR APPLICATION NUMBER:	60/091478
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091544
PRIOR FILING DATE:	1998-07-01
PRIOR APPLICATION NUMBER:	60/091519
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091626
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091633
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091978
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/091982
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/092182

PRIOR FILING DATE: 1998-07-09

Query Match	100.0%;	Score 3440;	DB 10;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 1.2e-293;		
Matches 653;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
1	Y	1	Y	1
1	b	1	b	1
61	Y	61	Y	61
61	b	61	b	61
121	Y	121	Y	121
121	b	121	b	121
181	Y	181	Y	181
181	b	181	b	181
241	Y	241	Y	241
241	b	241	b	241
301	Y	301	Y	301
301	b	301	b	301
361	Y	361	Y	361
361	b	361	b	361
421	Y	421	Y	421
421	b	421	b	421
481	Y	481	Y	481
481	b	481	b	481
541	Y	541	Y	541
541	b	541	b	541
601	Y	601	Y	601
601	b	601	b	601

RESULT 16

US-09-990-444-229  
: Sequence 229, Application US/09990444

Publication No. US20

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bernstein, David  
APPLICANT: Beseneyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerbes, Hanspeter  
APPLICANT: Grittsen, Mary E.  
APPLICANT: Gorrard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grunaldi, J. Christ  
APPLICANT: Guimay, Austin L.  
APPLICANT: Kijaviv, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoon, Nicholas F.

PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
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PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCLMQVTVHHHTWNAILLPVYLTQWILCAIAAASAGPQNCPSVCSCNQFSKV 60  
DB 1 MCLMQVTVHHHTWNAILLPVYLTQWILCAIAAASAGPQNCPSVCSCNQFSKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNLMENNIQMIQADTFRHLHLHLEVQLGNSIRQIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNLMENNIQMIQADTFRHLHLHLEVQLGNSIRQIEVGAFN 120  
QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELMRNPNPIESIPSYAFNRVPSLARLDGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELMRNPNPIESIPSYAFNRVPSLARLDGE 180  
QY 181 LKCLEYISGAPFGLFNLKYLNLGNCNIKMPNLTPLVGLBELEMSGNHHPPIRPGSFHG 240  
DB 181 LKCLEYISGAPFGLFNLKYLNLGNCNIKMPNLTPLVGLBELEMSGNHHPPIRPGSFHG 240  
QY 241 LSSLKLLWMSQVSLIERNADFGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSSLKLLWMSQVSLIERNADFGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
QY 301 PWNCDILMLAWLREVIPTNSTCCGRCHAPMHMGRYLVEVDQASFQCSAPFINDAPR 360  
DB 301 PWNCDILMLAWLREVIPTNSTCCGRCHAPMHMGRYLVEVDQASFQCSAPFINDAPR 360  
QY 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRHPRIISVINDGTLSFVHLLSDTG 420  
DB 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRHPRIISVINDGTLSFVHLLSDTG 420  
QY 421 VYTCWTVNAGNSAYLNVSABINTSNYSPTTVTVETTHEISPEDTRKYKPVPTTS 480  
DB 421 VYTCWTVNAGNSAYLNVSABINTSNYSPTTVTVETTHEISPEDTRKYKPVPTTS 480  
QY 481 TGYOPAYTTSITVL1QITTRVPKQAVPATDTTDMQTSLSDEVKMTTKIIGCFVAVTLA 540

Db 481 TGQPAYTTSTVLQITTRPKQAVPATDTRDKMTSLDEVMKTKIILGCFVAVTLLA 540  
Qy 541 AAMLVFKLRKHQRSTVTAARTVEIIQVDEIDIPAAATAAPSGVSGEAVLPT 600  
Db 541 AAMLVFKLRKHQRSTVTAARTVEIIQVDEIDIPAAATAAPSGVSGEAVLPT 600  
Qy 601 IHDHINVTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQHTKDKVQETQI 653  
Db 601 IHDHINVTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQHTKDKVQETQI 653

## RESULT 17

US-09-991-181-229  
Sequence 229, Application US/09991181  
Publication No. US20020197615A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kitavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Wetanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
PRIOR FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
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PRIOR APPLICATION NUMBER: 60/087106  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 M K L L Q V T V H H T W A I L L P F V Y L T A Q W I L C A A A A S A G P Q N C P S V C S C S N Q F S K V 60

Db 1 M K L L Q V T V H H T W A I L L P F V Y L T A Q W I L C A A A A S A G P Q N C P S V C S C S N Q F S K V 60  
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Db 61 C T R G L S E V P Q I P S N T R Y L N M E N N I O M I Q A D I F R H L H L E V L O L G E N S I R Q I E V G A F N 120  
Qy 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M E L D L G E 180  
Db 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M E L D L G E 180  
Qy 181 L K K L E Y I S E G A F E G L F N L K Y L M I G M C N I K O M P N U L T P L V G L E L E M S G N H F P E I R P G S F H G 240  
Db 181 L K K L E Y I S E G A F E G L F N L K Y L M I G M C N I K O M P N U L T P L V G L E L E M S G N H F P E I R P G S F H G 240  
Qy 241 L S L K K L W M N S O V S L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P L R Y L V E L H L A H N 300  
Db 241 L S L K K L W M N S O V S L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P L R Y L V E L H L A H N 300  
Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D Q A S F C S A P F I M D A P R 360  
Db 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D Q A S F C S A P F I M D A P R 360  
Qy 361 D L N I S E G R M A B L K C R T P M S S V K M L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
Db 361 D L N I S E G R M A B L K C R T P M S S V K M L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T R K Y K P V P T T S 480  
Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T R K Y K P V P T T S 480  
Qy 481 T G Y O P A Y T T S T V L I Q T T R V P K Q V A P A T D T T D K M O T S L D E V M K T T K I I G C F V A V T I L A 540  
Db 481 T G Y O P A Y T T S T V L I Q T T R V P K Q V A P A T D T T D K M O T S L D E V M K T T K I I G C F V A V T I L A 540  
Qy 541 A A M L I V F Y K I R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
Db 541 A A M L I V F Y K I R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
Qy 601 I H D H I N Y N T Y K P A H G A H W T E N S I G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T O I 653  
Db 601 I H D H I N Y N T Y K P A H G A H W T E N S I G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T O I 653

RESULT 18  
US-09-989-730-229  
; Sequence 229, Application US/09989730  
; Publication No. US20020197674A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Saton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavins, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin



TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730P1C69

CURRENT APPLICATION NUMBER: US/09/989,730

CURRENT FILING DATE: 2001-11-20

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

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PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1	MYLLQVTVVHTHTNAAILLFFVYLTQVWILCAIAAASAGQNCPSVCSNPFQSV	60
2	1	MYLLQVTVVHTHTNAAILLFFVYLTQVWILCAIAAASAGQNCPSVCSNPFQSV
3	61	CTRRGLSEVQGPISNTRYLNLMMENNIQIADTFRLHLEHLEVLQGRNSIRQIEVGAFN
4	61	CTRRGLSEVQGPISNTRYLNLMMENNIQIADTFRLHLEHLEVLQGRNSIRQIEVGAFN
5	121	GLASLNTLELFDNNWLTVPISGAFVLSKRLRLNNPIESISYAFNRPVSLRLDLGE
6	121	GLASLNTLELFDNNWLTVPISGAFVLSKRLRLNNPIESISYAFNRPVSLRLDLGE
7	181	LKLEYISGAFEGFLNLYLNLGNCNKPNLTPLVGLEELMSEGNHPPFIRGSPHG
8	181	LKLEYISGAFEGFLNLYLNLGNCNKPNLTPLVGLEELMSEGNHPPFIRGSPHG
9	241	LSLKKLWVNSQVSLIERNAPDGLASIVELNLAHNLSSLPHDLTPRLYLVELHLHNN
10	241	LSLKKLWVNSQVSLIERNAPDGLASIVELNLAHNLSSLPHDLTPRLYLVELHLHNN
11	301	PWNCDCDILNLAWLREYIPTNSTCCGRCHAPMHRGKYLVEVDQASFOCSAPFIMDAPR
12	301	PWNCDCDILNLAWLREYIPTNSTCCGRCHAPMHRGKYLVEVDQASFOCSAPFIMDAPR
13	361	DLNISGRMAELKCTPMPSSVKLLPNCVTLSHSHRPRISVLNDGTLNFSHVLLSDTG
14	361	DLNISGRMAELKCTPMPSSVKLLPNCVTLSHSHRPRISVLNDGTLNFSHVLLSDTG
15	421	VTCMVNTVAGNSNASAYLNVSTAEIANTSNYSFFTTVTVTTSISPEDTRKYKVPPTTS
16	421	VTCMVNTVAGNSNASAYLNVSTAEIANTSNYSFFTTVTVTTSISPEDTRKYKVPPTTS
17	481	TGYQPAYTTSITVLQTRVPQVAVPATDTDKMQTSLDEVNKKTKILIGCFVAVTLLA
18	481	TGYQPAYTTSITVLQTRVPQVAVPATDTDKMQTSLDEVNKKTKILIGCFVAVTLLA
19	541	AAMLIVFYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATAAATAPSGVSGEAGVLP
20	541	AAMLIVFYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATAAATAPSGVSGEAGVLP
21	601	IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTITISBPYIIQTHKXKVQETQI

Db 601 IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTITISBPYIIQTHKXKVQETQI 653

RESULT 19  
 US-09-990-436-229  
 Sequence 229, Application US/09990436  
 Publication No. US20020198148A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin E.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same  
 FILE REFERENCE: P2730P1C14  
 CURRENT APPLICATION NUMBER: US/09/990,436  
 CURRENT FILING DATE: 2001-11-14  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.28-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MKLIMQVTHHTWNAILLFFVYLTAQWILCAALAAASAGPQPCSVCSNQSXV 60

DB 1 MKLIMQVTHHTWNAILLFFVYLTAQWILCAALAAASAGPQPCSVCSNQSXV 60

OY 61 CTRRGLSEVPGIIPSNTRYLNLMNENNIQMIQADTRHLHLHLVLOLGRNSIRQIBVGAFN 120

DB 61 CTRRGLSEVPGIIPSNTRYLNLMNENNIQMIQADTRHLHLHLVLOLGRNSIRQIBVGAFN 120

121 GLASINTLEFDNNLTWIPSGAFYLSKLELMRLNPNPIESSPSYAFNRPVPSLMRLDLGE 180  
121 GLASINTLEFDNNLTWIPSGAFYLSKLELMRLNPNPIESSPSYAFNRPVPSLMRLDLGE 180  
181 LKLEIYISEGAFEGFLNLYNLGKCNIKOMPNIPLVGLLEELMSGNHPPEIRPGSFHG 240  
181 LKLEIYISEGAFEGFLNLYNLGKCNIKOMPNIPLVGLLEELMSGNHPPEIRPGSFHG 240  
241 LSSLKULWNNQSQVSLIERNAFDGLASIVELNAHNNLSLPHDLFTPLRYLVELHLHN 300  
241 LSSLKULWNNQSQVSLIERNAFDGLASIVELNAHNNLSLPHDLFTPLRYLVELHLHN 300  
301 PWNCDCLILAWLWREVIPTNSCCGRCHAPMGRVLEVDQASFOCSAPFMDAPR 360  
301 PWNCDCLILAWLWREVIPTNSCCGRCHAPMGRVLEVDQASFOCSAPFMDAPR 360  
361 DINTSEGRMAELKCRTPMSSVKWLLPNGVLSHAGRPRIISVNDGTLNFSHVLLSDTG 420  
361 DINTSEGRMAELKCRTPMSSVKWLLPNGVLSHAGRPRIISVNDGTLNFSHVLLSDTG 420  
421 VTCWNTNAGNSNASAYLVNSTAELNTSNYSFPTTWTVEITSPEDTRKYKVPPTS 480  
421 VTCWNTNAGNSNASAYLVNSTAELNTSNYSFPTTWTVEITSPEDTRKYKVPPTS 480  
481 TGYQPAVTTSTVLIIOTRVPKQAVPAIDTDDKQOTSLDEVMKTKIIIGCFVAVTLA 540  
481 TGYQPAVTTSTVLIIOTRVPKQAVPAIDTDDKQOTSLDEVMKTKIIIGCFVAVTLA 540  
541 AAMLIVFKLRKHQOSTVTAARTVEIIQVDDIIPAAATSAATAAPSGVSEGAVLPT 600  
541 AAMLIVFKLRKHQOSTVTAARTVEIIQVDDIIPAAATSAATAAPSGVSEGAVLPT 600  
601 IHDHINTNTKPAHGAHWTENSLNSLHPVTTSISPPYIIOTHTKDKVQOETOI 653  
601 IHDHINTNTKPAHGAHWTENSLNSLHPVTTSISPPYIIOTHTKDKVQOETOI 653

## RESULT 20

S-09-993-687-229

Sequence 229, Application US/09993687

Publication No. US20020196149A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: KJavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoli, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C11  
CURRENT APPLICATION NUMBER: US/09/993,687  
CURRENT FILING DATE: 2002-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

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; PRIOR FILING DATE: 1998-07-01
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; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 3440; DB 10; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCNQSKVV 60
DB 1 MKLLQVTVHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCNQSKVV 60

QY 61 CTRGLSEVPQGISNTRYLNLMENN:QMIQADTFRLHLEVLQGRNSIRQIEVAFN 120
DB 61 CTRGLSEVPQGISNTRYLNLMENN:QMIQADTFRLHLEVLQGRNSIRQIEVAFN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRNPIESIPSYAFNRVPSLMRLDGE 180
DB 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRNPIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEYISEGAFEGFLPNLKYNLGMCMNIXDMPNLTPLVGLLEEMSGNHPEIRPGSFHG 240
DB 181 LKLEYISEGAFEGFLPNLKYNLGMCMNIXDMPNLTPLVGLLEEMSGNHPEIRPGSFHG 240

QY 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSSLPHDLFTPLRYLVELHLHN 300
DB 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSSLPHDLFTPLRYLVELHLHN 300

QY 301 PNWCDCDILMLAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFOCSAPFIMDAPR 360
DB 301 PNWCDCDILMLAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFOCSAPFIMDAPR 360

QY 361 DLNISEGRMAELKCRTPPSSSVKMLLPNGTVLSHGRHPRISVINDGTNLFHVLSDTG 420
DB 361 DLNISEGRMAELKCRTPPSSSVKMLLPNGTVLSHGRHPRISVINDGTNLFHVLSDTG 420

QY 421 VYTCMVTNVAGNSNASAYLNVTAEALNTSNYSFFTIVTETTEISPEDTRKYKVPPTTS 480
DB 421 VYTCMVTNVAGNSNASAYLNVTAEALNTSNYSFFTIVTETTEISPEDTRKYKVPPTTS 480

QY 481 TGYQPAYTSTTVLIQTRVPKQVAPADTDTDKMOTSLDEVNKTIIIGCFVAVTLA 540
DB 481 TGYQPAYTSTTVLIQTRVPKQVAPADTDTDKMOTSLDEVNKTIIIGCFVAVTLA 540

QY 541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDRDIPAAATSAATAAPSGVSGEAVLPT 600
DB 541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDRDIPAAATSAATAAPSGVSGEAVLPT 600

QY 601 IHDHINTYKPAHGAHWNTENSLGNSLHPTVTTSISEPYIIQHTKDKVQETQI 653
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RESULT 21
US-09-989-734-229
; Sequence 229, Application US/09989734

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Publication No. US20030003531A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerlitsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gueney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C64  
 CURRENT APPLICATION NUMBER: US/09/989,734  
 CURRENT FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
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1 PRIOR APPLICATION NUMBER: 60/092182  
1 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DE 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHHTNAILLFFVYLTAQVWILCAIAAASAGPQPCPSVCSCSNQFSKV 60  
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QY 61 CTRRGLSEVPQGISNTRYLNLMENNIOQADTFRHLHLEVLQGRNSIRQIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNLMENNIOQADTFRHLHLEVLQGRNSIRQIEVGAFN 120  
QY 121 GLASINTLELFDNKLTVIPSGAEYLSKLELWNNPIESPVAFNVPVSLXELDLGE 180  
DB 121 GLASINTLELFDNKLTVIPSGAEYLSKLELWNNPIESPVAFNVPVSLXELDLGE 180  
QY 181 LKLEYISEGAFGLFNKLYLNLMGNKIDMPNLTPLVGLSELMNSGNHFFRPGSFHG 240  
DB 181 LKLEYISEGAFGLFNKLYLNLMGNKIDMPNLTPLVGLSELMNSGNHFFRPGSFHG 240

QY 241 LSLKXGLNMSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVLEHLHEN 300  
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QY 301 PWNCDIDILNLAWLREYIPTNSTCCGRCHAPMGRYLYVEVDQASFOCSAPFINDAPR 360  
DB 301 PWNCDIDILNLAWLREYIPTNSTCCGRCHAPMGRYLYVEVDQASFOCSAPFINDAPR 360  
QY 361 DLIISSEGRMAELKCRTPPMSSVKKLLPNGTVLSHSHRPRISVLNDGTILNFSHVLLSDTG 420  
DB 361 DLIISSEGRMAELKCRTPPMSSVKKLLPNGTVLSHSHRPRISVLNDGTILNFSHVLLSDTG 420  
QY 421 VTCMVTVNAGNSNASAYLNSTRELNTSNYSPTTIVTTEIISPEDTRKRYKVPETTS 480  
DB 421 VTCMVTVNAGNSNASAYLNSTRELNTSNYSPTTIVTTEIISPEDTRKRYKVPETTS 480  
QY 481 TGYQPAYTTSITVLIOQTRVPKQVAVPATDTTDKQVOTSLDEWMTTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSITVLIOQTRVPKQVAVPATDTTDKQVOTSLDEWMTTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
DB 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
QY 601 IRCHINYNTRYKPAHGAHNTENSLSLHPTVTITISEPVIIQTHTKQVQETQI 653  
DB 601 IRCHINYNTRYKPAHGAHNTENSLSLHPTVTITISEPVIIQTHTKQVQETQI 653

RESULT 22

US-09-997-653-229  
Sequence 229, Application US/09997653  
Publication No. US20030008297A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770







PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1y 1 MKLLMVTWVHHHTWNAIILPFVYLTATQWILCAATAAASAGPQNCPSVCSQSPKSVV 60  
1b 1 MKLLMVTWVHHHTWNAIILPFVYLTATQWILCAATAAASAGPQNCPSVCSQSPKSVV 60  
1y 61 CTRRGSEVQGPISNTRYLNMMNNIOMIQADTFRHLHLHLEVLQGENSIRQIEVGAFN 120  
1b 61 CTRRGSEVQGPISNTRYLNMMNNIOMIQADTFRHLHLHLEVLQGENSIRQIEVGAFN 120  
1y 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRLNPNPISPSYAFNRVPSLMRLDGE 180  
1b 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRLNPNPISPSYAFNRVPSLMRLDGE 180  
1y 181 LKLEYSISGAPGLENLKYLNLCMCNKDMNLTPLVGLBELEMSGNHPEIRPGSFHG 240  
1b 181 LKLEYSISGAPGLENLKYLNLCMCNKDMNLTPLVGLBELEMSGNHPEIRPGSFHG 240  
1y 241 LSSLKKLWANSOVSIERNADGLASLVELNLAHNNLSSLPDLFTPLAYLVELHLHNN 300  
1b 241 LSSLKKLWANSOVSIERNADGLASLVELNLAHNNLSSLPDLFTPLAYLVELHLHNN 300  
1y 301 PNCDCDILKAWLREYIPTNSTCGRCHAPMHRGRLVVEVDQASFOCSAPPIMDAPR 360  
1b 301 PNCDCDILKAWLREYIPTNSTCGRCHAPMHRGRLVVEVDQASFOCSAPPIMDAPR 360  
1y 361 DNISGRMAELKCRTPPNSSVKWLLPNCGLVLSHASRPRISVNDGTLNPSHVLLSDTG 420  
1b 361 DNISGRMAELKCRTPPNSSVKWLLPNCGLVLSHASRPRISVNDGTLNPSHVLLSDTG 420  
1y 421 VYTCWVTNAGNSAGAYLNVSATLNTSNYSFFTTVTVEITEISPEDTTRKYPVPTTS 480  
1b 421 VYTCWVTNAGNSAGAYLNVSATLNTSNYSFFTTVTVEITEISPEDTTRKYPVPTTS 480  
1y 481 TGYORAYTSTTVLIQTTVPKQAVPATDITDKMCTSLDEVMKTKIILIGCFVAVTLLA 540  
1b 481 TGYORAYTSTTVLIQTTVPKQAVPATDITDKMCTSLDEVMKTKIILIGCFVAVTLLA 540  
1y 541 AAMLIVFYKLKRRHQORSTVTAARTVELIQVDEIPAAATSAATAAPSGVSGEAVLPT 600  
1b 541 AAMLIVFYKLKRRHQORSTVTAARTVELIQVDEIPAAATSAATAAPSGVSGEAVLPT 600  
1y 601 IDHINNTYKPAAGHAWTENSIGNSLHPTVTTSSEPVIIQTHTKDKVQRTOI 653  
1b 601 IDHINNTYKPAAGHAWTENSIGNSLHPTVTTSSEPVIIQTHTKDKVQRTOI 653

RESULT 23  
US-09-993-667-229  
; Sequence 229, Application US/09993667  
; Publication No. US20030022167A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertschen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C4  
CURRENT APPLICATION NUMBER: US/09/993,667  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-15  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/065311  
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PRIOR FILING DATE: 1997-11-24  
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PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
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PRIOR APPLICATION NUMBER: 60/087106  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
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PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQFSKV	60
Db	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQFSKV	60
QY	61	CTRGLSEVPQGISNTRYLMNENNIQMIQADTFRLHHLHLEVLQLGNSIRQIEVCAPN	120
Db	61	CTRGLSEVPQGISNTRYLMNENNIQMIQADTFRLHHLHLEVLQLGNSIRQIEVCAPN	120
QY	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSYAFNRVPFSLMRDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSYAFNRVPFSLMRDLGE	180
QY	181	LKKLEYISEGAFEGFLNKLNYLNLQMCNIKMPNLTPLVGLFELEMSGNHPPFIRPGSFHG	240
Db	181	LKKLEYISEGAFEGFLNKLNYLNLQMCNIKMPNLTPLVGLFELEMSGNHPPFIRPGSFHG	240
QY	241	LSSLLKLVWMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPIRYLYVELHLHNN	300
Db	241	LSSLLKLVWMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPIRYLYVELHLHNN	300
QY	301	FWNCDCILWLAWWLEIYIPTNSTCCGRCHAPMHRGRYLVVEVDQASFOCSAPPIMDAPR	360

Db 301 PRNCDLILNWLWLYEYIPTNSTCCGRCHAPNEMGRVILVEVDQASFOCSAPFTMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPRISVLNDGILNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPRISVLNDGILNFSHVLLSDTG 420  
Qy 421 VYTCWNTVAGNSNAYLNVSATLNTSNYSPTVTVTETTEISPEDTTRKYKVPVPTS 480  
Db 421 VYTCWNTVAGNSNAYLNVSATLNTSNYSPTVTVTETTEISPEDTTRKYKVPVPTS 480  
Qy 481 TGYQPAYTSTTVLIQITTRVPKQVAPADTDDKQMTSLDEWVKTKIILGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLIQITTRVPKQVAPADTDDKQMTSLDEWVKTKIILGCFVAVTLLA 540  
Qy 541 AAMLIYFYKLRKHQRSTVTAARTVEIIVQVEDIPAAATSAATAAPSGVSEGAVALVPT 600  
Db 541 AAMLIYFYKLRKHQRSTVTAARTVEIIVQVEDIPAAATSAATAAPSGVSEGAVALVPT 600  
Qy 601 IHDHINYNTYKPAHGAFTWENSIGNSLHPTVTITISEPYIIQHTKQKVOETQI 653  
Db 601 IHDHINYNTYKPAHGAFTWENSIGNSLHPTVTITISEPYIIQHTKQKVOETQI 653

## RESULT 24

US-09-997-428-229  
Sequence 229, Application US/09997428  
Publication No. US20030027162A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gottard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Faoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC44  
CURRENT APPLICATION NUMBER: US/09/997,428  
CURRENT FILING DATE: 2003-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
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 PRIOR APPLICATION NUMBER: 60/090696  
 PRIOR FILING DATE: 1998-06-25  
 PRIOR APPLICATION NUMBER: 60/090862  
 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/090863  
 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/091360  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091478  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L M Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A S A G P O N C P S V C S C S Q F S K V 60  
 Db 1 M K L L M Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A S A G P O N C P S V C S C S Q F S K V 60

Qy 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Db 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120

Qy 121 G L A S I N T L E L F D N M L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D I G E 180  
 Db 121 G L A S I N T L E L F D N M L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D I G E 180

Qy 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P E I R P G S F H G 240  
 Db 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P E I R P G S F H G 240

Qy 241 L S S I K K L W M N S Q V S L I E R N A P D G L A S I V E L N L A H N L S S I P H D L F T P L R Y L V E L H L H N 300  
 Db 241 L S S I K K L W M N S Q V S L I E R N A P D G L A S I V E L N L A H N L S S I P H D L F T P L R Y L V E L H L H N 300

Qy 301 P W N C D C D I L N L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
 Db 301 P W N C D C D I L N L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360

Qy 361 D L N I S E G R M A E L K C T P P M S S V K M L L P N G T V L S H A S R H P R I S V L N D G L N F S H V L L S D T G 420  
 Db 361 D L N I S E G R M A E L K C T P P M S S V K M L L P N G T V L S H A S R H P R I S V L N D G L N F S H V L L S D T G 420

Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V T E T S P E D T T R K Y K P V P T T S 480  
 Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V T E T S P E D T T R K Y K P V P T T S 480

Qy 481 T G Y P A Y T T S T T V L I Q T T R V P K Q A V P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
 Db 481 T G Y P A Y T T S T T V L I Q T T R V P K Q A V P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540

Qy 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 Db 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600

Qy 601 I H D H I N Y N T Y K P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
 Db 601 I H D H I N Y N T Y K P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

RESULT 25  
 US-09-997-666-229  
 Sequence 229 Application US/0997666  
 Publication No. US20030027163A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavini, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C42  
 CURRENT FILING DATE: 2001-11-15  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/065186  
 PRIOR FILING DATE: 1997-11-12  
 PRIOR APPLICATION NUMBER: 60/065311  
 PRIOR FILING DATE: 1997-11-13  
 PRIOR APPLICATION NUMBER: 60/066770  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/075945  
 PRIOR FILING DATE: 1998-02-25  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-04-28  
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 PRIOR APPLICATION NUMBER: 60/087759  
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 PRIOR APPLICATION NUMBER: 60/087827  
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 PRIOR APPLICATION NUMBER: 60/090445  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090472  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090535  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090540

Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090542  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090557  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090676  
Prior Filing Date: 1998-06-25  
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Prior Application Number: 60/091626  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MLLAQVTHHTWNAIILPVLTAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
1 MLLAQVTHHTWNAIILPVLTAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
61 CTRGLSEVPQGPSNTRYLNLMENNIIQIADTFRLHLEVLQGRNSIRQIEVGFN 120  
61 CTRGLSEVPQGPSNTRYLNLMENNIIQIADTFRLHLEVLQGRNSIRQIEVGFN 120  
121 GLASLNTLELFDNLWTVIPSGAFYLSKRLBELRNPNPESIFSYAFNRPVPSLMRLDGE 180  
121 GLASLNTLELFDNLWTVIPSGAFYLSKRLBELRNPNPESIFSYAFNRPVPSLMRLDGE 180  
181 LKLEYISEGAFEGFLNKLNLGMCNKKOMPNTLPLVGLLEEMSGNHPPEIRPGSFG 240  
181 LKLEYISEGAFEGFLNKLNLGMCNKKOMPNTLPLVGLLEEMSGNHPPEIRPGSFG 240  
241 LSSLLKLWVNSQVSLIERNAFQGLASLVELNLAHNLSLPHDLTPRLYLVELLHFN 300  
241 LSSLLKLWVNSQVSLIERNAFQGLASLVELNLAHNLSLPHDLTPRLYLVELLHFN 300  
301 PNWCDCILMLAWNLREVPNTNCCGRCHAPMWRGRYLYVEVDQASFQCSAPFINDAPR 360  
301 PNWCDCILMLAWNLREVPNTNCCGRCHAPMWRGRYLYVEVDQASFQCSAPFINDAPR 360  
361 DLNISEGRMAELKCRTPMGSVKWLLPNGTVLSHSDPRISVLNDGTLNFSVLLSDTG 420  
361 DLNISEGRMAELKCRTPMGSVKWLLPNGTVLSHSDPRISVLNDGTLNFSVLLSDTG 420  
421 VYTCVNTVAGNSASAYLNVSTAEIATNSKSFPTTVEITETSPEDTTRKYKVPVPTS 480

Db 421 VYTCVNTVAGNSASAYLNVSTAEIATNSKSFPTTVEITETSPEDTTRKYKVPVPTS 480  
QY 481 TGYQPAYTTSITVLIIQTTTRVFKQVAVPATDTTDDKQVQSLDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSITVLIIQTTTRVFKQVAVPATDTTDDKQVQSLDEVMKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQORSTVTAARTVBLIIQVDEIPAAATSAATAAPSGVSGEGAVVLP 600  
Db 541 AAMLIVFYKLRKHQORSTVTAARTVBLIIQVDEIPAAATSAATAAPSGVSGEGAVVLP 600  
QY 601 IEDHINYNITKPAHGAHMTENSLSLHPTVTITISBPYIIQTHTKQKVQERTQI 653  
Db 601 IEDHINYNITKPAHGAHMTENSLSLHPTVTITISBPYIIQTHTKQKVQERTQI 653

RESULT 26  
US-09-990-438-229  
; Sequence 229, Application US/09990438  
; Publication No. US200300277541  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavir, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C3  
; CURRENT APPLICATION NUMBER: US/09/990,438  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
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; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/087106  
; PRIOR FILING DATE: 1998-05-28  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087609

1 PRIOR FILING DATE: 1998-06-02  
2 PRIOR APPLICATION NUMBER: 60/087759  
3 PRIOR FILING DATE: 1998-06-02  
4 PRIOR APPLICATION NUMBER: 60/087827  
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6 PRIOR APPLICATION NUMBER: 60/088021  
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16 PRIOR APPLICATION NUMBER: 60/088030  
17 PRIOR FILING DATE: 1998-06-04  
18 PRIOR APPLICATION NUMBER: 60/088033  
19 PRIOR FILING DATE: 1998-06-04  
20 PRIOR APPLICATION NUMBER: 60/088326  
21 PRIOR FILING DATE: 1998-06-04  
22 PRIOR APPLICATION NUMBER: 60/088167  
23 PRIOR FILING DATE: 1998-06-05  
24 PRIOR APPLICATION NUMBER: 60/088202  
25 PRIOR FILING DATE: 1998-06-05  
26 PRIOR APPLICATION NUMBER: 60/088212  
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31 PRIOR FILING DATE: 1998-06-09  
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78 PRIOR APPLICATION NUMBER: 60/089948  
79 PRIOR FILING DATE: 1998-06-19  
80 PRIOR APPLICATION NUMBER: 60/089952  
81 PRIOR FILING DATE: 1998-06-19  
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83 PRIOR FILING DATE: 1998-06-22  
84 PRIOR APPLICATION NUMBER: 60/090252  
85 PRIOR FILING DATE: 1998-06-22  
86 PRIOR APPLICATION NUMBER: 60/090254  
87 PRIOR FILING DATE: 1998-06-22  
88 PRIOR APPLICATION NUMBER: 60/090349  
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92 PRIOR APPLICATION NUMBER: 60/090429  
93 PRIOR FILING DATE: 1998-06-24  
94 PRIOR APPLICATION NUMBER: 60/090431  
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103 PRIOR FILING DATE: 1998-06-24  
104 PRIOR APPLICATION NUMBER: 60/090535  
105 PRIOR FILING DATE: 1998-06-24  
106 PRIOR APPLICATION NUMBER: 60/090540  
107 PRIOR FILING DATE: 1998-06-24  
108 PRIOR APPLICATION NUMBER: 60/090542  
109 PRIOR FILING DATE: 1998-06-24  
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112 PRIOR APPLICATION NUMBER: 60/090676  
113 PRIOR FILING DATE: 1998-06-25  
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117 PRIOR FILING DATE: 1998-06-25  
118 PRIOR APPLICATION NUMBER: 60/090694  
119 PRIOR FILING DATE: 1998-06-25  
120 PRIOR APPLICATION NUMBER: 60/090695  
121 PRIOR FILING DATE: 1998-06-25  
122 PRIOR APPLICATION NUMBER: 60/090696  
123 PRIOR FILING DATE: 1998-06-25  
124 PRIOR APPLICATION NUMBER: 60/090862  
125 PRIOR FILING DATE: 1998-06-26  
126 PRIOR APPLICATION NUMBER: 60/090863  
127 PRIOR FILING DATE: 1998-06-26  
128 PRIOR APPLICATION NUMBER: 60/091360  
129 PRIOR FILING DATE: 1998-07-01  
130 PRIOR APPLICATION NUMBER: 60/091478  
131 PRIOR FILING DATE: 1998-07-02  
132 PRIOR APPLICATION NUMBER: 60/091544  
133 PRIOR FILING DATE: 1998-07-01  
134 PRIOR APPLICATION NUMBER: 60/091519  
135 PRIOR FILING DATE: 1998-07-02  
136 PRIOR APPLICATION NUMBER: 60/091626  
137 PRIOR FILING DATE: 1998-07-02  
138 PRIOR APPLICATION NUMBER: 60/091633  
139 PRIOR FILING DATE: 1998-07-02  
140 PRIOR APPLICATION NUMBER: 60/091978  
141 PRIOR FILING DATE: 1998-07-07  
142 PRIOR APPLICATION NUMBER: 60/091982  
143 PRIOR FILING DATE: 1998-07-07  
144 PRIOR APPLICATION NUMBER: 60/092182  
145 PRIOR FILING DATE: 1998-07-09



Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLAQVTHHTWNAILLPPFYLTAAQWILCAIAAASAGPQNCPSVCSNQSFKV 60  
1 MKLLAQVTHHTWNAILLPPFYLTAAQWILCAIAAASAGPQNCPSVCSNQSFKV 60  
61 CTRGLSEVPGIPNTRYLMENNIOIADTFRLHLEVLQGRNIRIOIEVGAEN 120  
61 CTRGLSEVPGIPNTRYLMENNIOIADTFRLHLEVLQGRNIRIOIEVGAEN 120  
121 GLASNTLELFDNMLTVIPSGAPEYLSKRLRLNPNPIESIPYAFNRVPSLMRLDLGE 180  
121 GLASNTLELFDNMLTVIPSGAPEYLSKRLRLNPNPIESIPYAFNRVPSLMRLDLGE 180  
181 LKLEVISGEGAFEGFNLYKLNLCNCKDMPNLTPLVGLFELEMSGNHPPERPSPG 240  
181 LKLEVISGEGAFEGFNLYKLNLCNCKDMPNLTPLVGLFELEMSGNHPPERPSPG 240  
241 LSSKLKLYMNSQVSLIERNAPDGLASIVELNLNHNLSLPHDLFTPLLYLVELHLHEN 300  
241 LSSKLKLYMNSQVSLIERNAPDGLASIVELNLNHNLSLPHDLFTPLLYLVELHLHEN 300  
301 PNWCDDILLAWLREYIPNNSCCGCHAPMGRGYLVEVDQASFCQSPAFINDAPR 360  
301 PNWCDDILLAWLREYIPNNSCCGCHAPMGRGYLVEVDQASFCQSPAFINDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVKNLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
361 DLNISEGRMAELKCRTPPMSSVKNLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
421 VTCMVNTVAGNSASAVLNSTALNNTSNYSFFTTVTVTETISPDTRKVKVPPTTS 480  
421 VTCMVNTVAGNSASAVLNSTALNNTSNYSFFTTVTVTETISPDTRKVKVPPTTS 480  
481 TGYQPAYTTSVLIQITRVPKQAVPATDTTDMQTSLEVMKTKIIGCFVAVTLIA 540  
481 TGYQPAYTTSVLIQITRVPKQAVPATDTTDMQTSLEVMKTKIIGCFVAVTLIA 540  
541 RANLVFVKLRKHQRSTVTAARTVELIQVDEDIRAATSAATAPSGEGAVLPT 600  
541 RANLVFVKLRKHQRSTVTAARTVELIQVDEDIRAATSAATAPSGEGAVLPT 600  
601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISSEPYIIQTHTKQVQETQI 653  
601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISSEPYIIQTHTKQVQETQI 653

## RESULT 27

JS-09-990-562-229

Sequence 229, Application US/09990562

Publication No. US20030027985A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gertsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavic, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tomas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C18  
CURRENT APPLICATION NUMBER: US/09/990,562  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
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PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088810  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824



; PRIOR FILING DATE: 1998-06-10  
 ; PRIOR APPLICATION NUMBER: 60/088826  
 ; PRIOR FILING DATE: 1998-06-10  
 ; PRIOR APPLICATION NUMBER: 60/088858  
 ; PRIOR FILING DATE: 1998-06-11  
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 ; PRIOR APPLICATION NUMBER: 60/090542  
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 ; PRIOR APPLICATION NUMBER: 60/090557  
 ; PRIOR FILING DATE: 1998-06-24  
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; PRIOR APPLICATION NUMBER: 60/090678  
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 ; PRIOR APPLICATION NUMBER: 60/091544  
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 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091633  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAATAAASAGPNCPSVCSCNQFSKVW	60
Db	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAATAAASAGPNCPSVCSCNQFSKVW	60
Qy	61	CTRGLSEVPOGIPSNTRYLNLMENNIQMIQADTFPRHLHLEVLQLGNSIRQIEVGAFN	120
Db	61	CTRGLSEVPOGIPSNTRYLNLMENNIQMIQADTFPRHLHLEVLQLGNSIRQIEVGAFN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKLRRLMLRNNDPESIPSAFNRVPSLMLRLDGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFEYLSKLRRLMLRNNDPESIPSAFNRVPSLMLRLDGE	180
Qy	181	LKKLEYISSEGAPEGLFNKLYNLGMCNICKMPNLTPLVGLSELEMSGNHFFPIRPGSFHG	240
Db	181	LKKLEYISSEGAPEGLFNKLYNLGMCNICKMPNLTPLVGLSELEMSGNHFFPIRPGSFHG	240
Qy	241	LSSLKLLWMNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRLYLVELHLHN	300
Db	241	LSSLKLLWMNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRLYLVELHLHN	300
Qy	301	PANCCDDILMLAWMLREVIPTNSTCCGRCHAPMRGRYLVEDQASFOCSAPFMDAPR	360
Db	301	PANCCDDILMLAWMLREVIPTNSTCCGRCHAPMRGRYLVEDQASFOCSAPFMDAPR	360
Qy	361	DLNISGRMAELKCTPPMNSVKMLLPNGTVLSHSHRPRISVLNDGTLPNSHYLLSDTG	420
Db	361	DLNISGRMAELKCTPPMNSVKMLLPNGTVLSHSHRPRISVLNDGTLPNSHYLLSDTG	420
Qy	421	VYTCMVTNVAGNSNASAYLVNSTAELNTSNYSPTTIVTETTEISPEDTTRKYPVPTTS	480
Db	421	VYTCMVTNVAGNSNASAYLVNSTAELNTSNYSPTTIVTETTEISPEDTTRKYPVPTTS	480
Qy	481	TGYQPAYTTSYTLIQTTRVPKQVAVPATDTRDKQOTSLDEWVKTKIIIGCFVAVTLLA	540
Db	481	TGYQPAYTTSYTLIQTTRVPKQVAVPATDTRDKQOTSLDEWVKTKIIIGCFVAVTLLA	540

541 AAMLVYKXKXHQSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
541 AAMLVYKXKXHQSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
601 IHDHINTVYKPAHGAHWTENSLNSLHPTVTVTIISPYIIQTHTKDKVOETQI 653  
601 IHDHINTVYKPAHGAHWTENSLNSLHPTVTVTIISPYIIQTHTKDKVOETQI 653

## RESULT 28

IS-09-990-711-229

Sequence 229, Application US/09990711

Publication No. US20030032023A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Deenoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary B.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavlin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCES: E2730P1C2

CURRENT APPLICATION NUMBER: US/09/990,711

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/087106

PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087607

PRIOR FILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/087609

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PRIOR APPLICATION NUMBER: 60/087827

PRIOR FILING DATE: 1998-06-03

PRIOR APPLICATION NUMBER: 60/088021

PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
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PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
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PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
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PRIOR APPLICATION NUMBER: 60/089952

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PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
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PRIOR APPLICATION NUMBER: 60/090254  
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PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/091360  
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PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MLLMONTVHHHTWNAILLFFVYLTQWILCAIAAASAGPQPCPSVCSNQSFKV 60  
DB 1 MLLMONTVHHHTWNAILLFFVYLTQWILCAIAAASAGPQPCPSVCSNQSFKV 60

QY 61 CTRRGLSEVPOGIPSNTRYLNLMENNIOQADTFRLHLEHLEVLQGRNSIRQIEVGFN 120  
DB 61 CTRRGLSEVPOGIPSNTRYLNLMENNIOQADTFRLHLEHLEVLQGRNSIRQIEVGFN 120  
QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKILBELMRNPIBSIPSYAFNRVPSLMRLDGE 180  
DB 121 GLASLNTLELFDNMLTVIPSGAFYLSKILBELMRNPIBSIPSYAFNRVPSLMRLDGE 180  
QY 181 LKLEYSISEGAFEGFLNKLKYNLGMNCNIKMPNLTPLVGLLEELMSGNHPFPIRPGSFHG 240  
DB 181 LKLEYSISEGAFEGFLNKLKYNLGMNCNIKMPNLTPLVGLLEELMSGNHPFPIRPGSFHG 240  
QY 241 LSSKLLWMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVLELH 300  
DB 241 LSSKLLWMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVLELH 300  
QY 301 PNCDCDILMLAWMLREYIPTNSTCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 360  
DB 301 PNCDCDILMLAWMLREYIPTNSTCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 360  
QY 361 DINISEGMAELKCRTPMSSVKWLLPNGTVLSHSHPRISVINDGTNLFSHVLLSDTG 420  
DB 361 DINISEGMAELKCRTPMSSVKWLLPNGTVLSHSHPRISVINDGTNLFSHVLLSDTG 420  
QY 421 VYTCMTNVAGNSNASAYLVNSTAEINTSNYSPTFTVTVEITTEISPEDITRKYKPVPTTS 480  
DB 421 VYTCMTNVAGNSNASAYLVNSTAEINTSNYSPTFTVTVEITTEISPEDITRKYKPVPTTS 480  
QY 481 TGYQPAYTSTTVILQITRUPKQVAVPATDTTKMOTSLDENVKTKIILGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVILQITRUPKQVAVPATDTTKMOTSLDENVKTKIILGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLT 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLT 600  
QY 601 IDHININYTPAHGAHWNTENSLSLHPTVTTISPPYIIQHTKDKVQETQI 653  
DB 601 IDHININYTPAHGAHWNTENSLSLHPTVTTISPPYIIQHTKDKVQETQI 653

RESULT 29  
US-09-989-726-229  
; Sequence 229, Application US/09989726  
; Publication No. US2003040473A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P273QPLC60  
CURRENT APPLICATION NUMBER: US/09/989,726  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
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1 PRIOR APPLICATION NUMBER: 60/091978  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/091982  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/092182  
1 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.28-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	1	MKLLQVTVHHTWNAIIPFVYVCAQWILCAATAAASAGPQPCVSCSQFQSKVW	60
Qy	61	CTRRGSEVPGQIPSTRYLNLMENNIOIADTFRHLHLVQLGRNSIRQIEVGAFN	120
Db	61	CTRRGSEVPGQIPSTRYLNLMENNIOIADTFRHLHLVQLGRNSIRQIEVGAFN	120
Qy	121	GLASINTLSELPONWLTIVISGAFYLSKLELRLNRPSTPSYAFNRVPSLMDLGE	180
Db	121	GLASINTLSELPONWLTIVISGAFYLSKLELRLNRPSTPSYAFNRVPSLMDLGE	180
Qy	181	LKLEIYISGAFGLFNLYNLGMNICKDMNLTPLVGLBLELEMSGNHFFPIRPGSFH	240
Db	181	LKLEIYISGAFGLFNLYNLGMNICKDMNLTPLVGLBLELEMSGNHFFPIRPGSFH	240
Qy	241	LSSLKKLWVNSQVSLIERNADFGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN	300
Db	241	LSSLKKLWVNSQVSLIERNADFGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN	300
Qy	301	PWNCDCDILKLAWLREYIPTNSTCCGRCHAPMWRGRLVVEVDQASFOCSAPFIMDAPR	360
Db	301	PWNCDCDILKLAWLREYIPTNSTCCGRCHAPMWRGRLVVEVDQASFOCSAPFIMDAPR	360
Qy	361	DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPRISVLNDGTINFSHVLLSDTG	420
Db	361	DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPRISVLNDGTINFSHVLLSDTG	420
Qy	421	VYTCMVTVNAGNSAGAYLNVSFAELNTSNYSFFFTVTVETTEISPEDTRKYKVPPTS	480
Db	421	VYTCMVTVNAGNSAGAYLNVSFAELNTSNYSFFFTVTVETTEISPEDTRKYKVPPTS	480
Qy	481	TGYQPAVTTSTTVLITQTRVPKQVAPATDITDKMOTSLDEVMKTKTIIIGCFVAVTLLA	540
Db	481	TGYQPAVTTSTTVLITQTRVPKQVAPATDITDKMOTSLDEVMKTKTIIIGCFVAVTLLA	540
Qy	541	ANMLIVFYKLKREHQORSTVTAARTVEIIVQVDEDTIPAAATSAATAAPSGVSGEAVLPT	600
Db	541	ANMLIVFYKLKREHQORSTVTAARTVEIIVQVDEDTIPAAATSAATAAPSGVSGEAVLPT	600
Qy	601	IHDHINVTYKPAHGAHWTENSIGNSLHPTVTITISSEYIIQHTKDKVQETQI	653
Db	601	IHDHINVTYKPAHGAHWTENSIGNSLHPTVTITISSEYIIQHTKDKVQETQI	653

RESULT 30  
US-09-989-156-229  
Sequence 229, Application US/09998156  
Publication No. US20030044806A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC28  
CURRENT APPLICATION NUMBER: US/09/998,156  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHHTWNAILLPFVYLTQAQWILCAATAAASAGPQNCPCVCSNOPSKV 60  
 DB 1 MKLLQVTVHHHTWNAILLPFVYLTQAQWILCAATAAASAGPQNCPCVCSNOPSKV 60  
 QY 61 CTRRGLSEVPQIGIPSNTRYLNLMENNIQIQADTFRHLHLHLVQLGNSIRQIEVGAFN 120  
 DB 61 CTRRGLSEVPQIGIPSNTRYLNLMENNIQIQADTFRHLHLHLVQLGNSIRQIEVGAFN 120  
 QY 121 GLASINTLELFDNWLTVTISGAFYLSKRLWLNPNPIESTPSYAFNRPVPSLRDLGE 180

121 GLASLNTLEFDNLTPWIPGAFYLSKIRLWLRNNPIESIPSYAFNRVPSLMRLDLGE 180  
 181 LKLEYISEGAFEGFLNLYNLGNKNIKOMPNTLPLVGLLEEMSGNHPEIRPGSFHG 240  
 181 LKLEYISEGAFEGFLNLYNLGNKNIKOMPNTLPLVGLLEEMSGNHPEIRPGSFHG 240  
 241 LSSLKLLWNNQVSLTERNAFDGLASIVELNLAHNNLSSLPDHLPTPLRYLYVELHLHN 300  
 241 LSSLKLLWNNQVSLTERNAFDGLASIVELNLAHNNLSSLPDHLPTPLRYLYVELHLHN 300  
 301 PWNCDLTLWALWLRVYIPNNTCCGRCIAPMHRGRYLVVDQASFCQSAFFINDAPR 360  
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 361 DLNTSEGMAELKRTPPMSGVKMLPENGTVLSHSHRPRISVLNDCGTLNFSHVLLSDTG 420  
 361 DLNTSEGMAELKRTPPMSGVKMLPENGTVLSHSHRPRISVLNDCGTLNFSHVLLSDTG 420  
 421 VYTCNVNVAAGNSASVLYNSTAELNNTSNYSFFTTVTVEITSPEDTTRKYPVPTTS 480  
 421 VYTCNVNVAAGNSASVLYNSTAELNNTSNYSFFTTVTVEITSPEDTTRKYPVPTTS 480  
 481 TGYQPAYTTSTVLITQTRVPKQVAVPATDITDKQVTSLEWMTTKIILGCFVAVTLLA 540  
 481 TGYQPAYTTSTVLITQTRVPKQVAVPATDITDKQVTSLEWMTTKIILGCFVAVTLLA 540  
 541 RMLIVFYKLRKHCOORSTVTAARTVEIIOVDEDI PAATSAATAAPSGVSGGAVVLP 600  
 541 RMLIVFYKLRKHCOORSTVTAARTVEIIOVDEDI PAATSAATAAPSGVSGGAVVLP 600  
 601 IHDHINNTYKPAHGAHWTENSLGSLHPTVTITSEPIYIIQTHTKDKVQSTQI 653  
 601 IHDHINNTYKPAHGAHWTENSLGSLHPTVTITSEPIYIIQTHTKDKVQSTQI 653

RESULT 31

US-09-990-437-229  
 ; Sequence 229, Application US/09990437  
 ; Publication No. US20030045463A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
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 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC49  
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 ; CURRENT FILING DATE: 2001-11-16  
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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKLLWQVTVHHHTWNAITLLPPVYLTQVWILCAIAIAAASAGPQNCPSVCSNQSQKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNMENNIOIQTDFRHLHLEVLQGRNSIRQIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNMENNIOIQTDFRHLHLEVLQGRNSIRQIEVGAFN 120  
QY 121 GLASINTLELFDNWLTVIPSGAEYLSKRLBELMENNPIESISYAFNRVPSLMRLDGE 180  
DB 121 GLASINTLELFDNWLTVIPSGAEYLSKRLBELMENNPIESISYAFNRVPSLMRLDGE 180  
QY 181 LKLEYISEGAPEGLFNLKYNLGMNCNIDKMPNLTPLVGLLEEMSCNHPPEIRPGSFHG 240  
DB 181 LKLEYISEGAPEGLFNLKYNLGMNCNIDKMPNLTPLVGLLEEMSCNHPPEIRPGSFHG 240  
QY 241 LSSKLKLVWNSQVSLIERNADFGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSSKLKLVWNSQVSLIERNADFGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
QY 301 PWCDCDILMLAWLREYIPTNSTCCGRCCHAPMGRGYLVEVDQASFQCSAPFIMDAPR 360  
DB 301 PWCDCDILMLAWLREYIPTNSTCCGRCCHAPMGRGYLVEVDQASFQCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMSSVQVLLPNGTVLSHSHRPRISVNLNDGTLNFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSSVQVLLPNGTVLSHSHRPRISVNLNDGTLNFSHVLLSDTG 420  
QY 421 VYTCMVTNVAGNSASAYLVNSTAELNLSYSPFTTVVETTEISPEDITTKYKVPVPTS 480  
DB 421 VYTCMVTNVAGNSASAYLVNSTAELNLSYSPFTTVVETTEISPEDITTKYKVPVPTS 480  
QY 481 TGYQPAYTTSTTVLIQTTRVPKQVAVPATDITDMQTSLEDEWMTTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSTTVLIQTTRVPKQVAVPATDITDMQTSLEDEWMTTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVELIOVDEDI PAATSAATAAPSGVSGEAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVELIOVDEDI PAATSAATAAPSGVSGEAVVLP 600  
QY 601 IHDLNINNTYKPAFGAHTNENSLGNSLHPTVTITSEFYIIQTHTKDKVQETQI 653  
DB 601 IHDLNINNTYKPAFGAHTNENSLGNSLHPTVTITSEFYIIQTHTKDKVQETQI 653

RESULT 32  
US-09-991-157-229  
; Sequence 229, Application US/09991157  
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; GENERAL INFORMATION:



APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Sotstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
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APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C51  
CURRENT FILING DATE: 2001-11-16  
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PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

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61 CTRGGLSEVPQIPNTRYLNMENNIQMIQADTFRLHLHLVLQGRNSIRQIEVGAFN 120  
61 CTRGGLSEVPQIPNTRYLNMENNIQMIQADTFRLHLHLVLQGRNSIRQIEVGAFN 120  
121 GLASLNTLELFNNWLTVPISGAFYLSKRLBLRNPNPIESIPSYAENRVPISLRDLGE 180  
121 GLASLNTLELFNNWLTVPISGAFYLSKRLBLRNPNPIESIPSYAENRVPISLRDLGE 180  
181 LKXLEYISGAFEGFLNKLNLGNCNKDMPNLTPLVGLSELEMSGNHPPFIRPGSFHG 240  
181 LKXLEYISGAFEGFLNKLNLGNCNKDMPNLTPLVGLSELEMSGNHPPFIRPGSFHG 240  
241 LSSLKKLWNNNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVLEHLHN 300

Db 241 LSSLKKLWNNNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVLEHLHN 300  
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Db 301 PWCDDCDILAWLWLYEYPTNSTCCGRCHAPWMEGRYLVVEVDQASFOCSAPFIMDAPR 360  
Qy 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRISVLNDGTLNFSHVLLSDTG 420  
Db 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRISVLNDGTLNFSHVLLSDTG 420  
Qy 421 VYTCMTNVAAGNSNASAYLNVSTAEINTSNYSFFTVTVETTEISPEDTTRKYKVPPTTS 480  
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Db 481 TGYOPAYTTSTTVLIQTTRVPKQVAPADTTDDKMTSLDEVNMTKIIIGCFVAVTLLA 540  
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; Publication No. US20030049681A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
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; APPLICANT: Grimaldi, J. Christopher  
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; APPLICANT: Tomas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C46  
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; PRIOR APPLICATION NUMBER: 60/062250  
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; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945

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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 MLLWQVTHHTWNAALPPFVYLTQVWLCAATAAASAGPQNCPSVCSNPFVKV 60  
 b 1 MLLWQVTHHTWNAALPPFVYLTQVWLCAATAAASAGPQNCPSVCSNPFVKV 60  
 Y 61 CTRRGLSEVPQGPISNTRYLNLMNENIOMIQADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
 b 61 CTRRGLSEVPQGPISNTRYLNLMNENIOMIQADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
 Y 121 GLASINTLELFDWMLTVPISGAFYLSKRELWLNPNPIESIPSYAFNRVPSLMELDLGE 180  
 b 121 GLASINTLELFDWMLTVPISGAFYLSKRELWLNPNPIESIPSYAFNRVPSLMELDLGE 180  
 Y 181 LKLEVISGAFGLFNKYLNLGMCNIXDMPNLTPLVGLBLELEMSGNHFPPIRPGSPHG 240  
 b 181 LKLEVISGAFGLFNKYLNLGMCNIXDMPNLTPLVGLBLELEMSGNHFPPIRPGSPHG 240  
 Y 241 LSLKLLWVNSOVSLIERNAPDGLASVELMAHNNLSLPHDLFTPLRYLVELHLEHN 300  
 b 241 LSLKLLWVNSOVSLIERNAPDGLASVELMAHNNLSLPHDLFTPLRYLVELHLEHN 300  
 Y 301 PNCDCDILMLANLREYIPTNSTCCGRCHAPNMGGRVYLVVDQASFOCSAPFLMDAPR 360  
 b 301 PNCDCDILMLANLREYIPTNSTCCGRCHAPNMGGRVYLVVDQASFOCSAPFLMDAPR 360  
 Y 361 DLNISEGRMAELKCRTPPMSSVKWMLPNGTVLSHARRHPRI SVLNDGTINTSEVLLSDTG 420  
 b 361 DLNISEGRMAELKCRTPPMSSVKWMLPNGTVLSHARRHPRI SVLNDGTINTSEVLLSDTG 420  
 Y 421 VYTCMTNVAGNSNAYLVNSTAEINTSNYSFFITVTVETTEISPEDTTRKYKVPVPTS 480  
 b 421 VYTCMTNVAGNSNAYLVNSTAEINTSNYSFFITVTVETTEISPEDTTRKYKVPVPTS 480  
 Y 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 b 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 Y 541 AAMLIYFKLKKHQQRSTVTAARTVEIIQVDEIDIPATSAATAAPSGVSGEAVLPT 600  
 b 541 AAMLIYFKLKKHQQRSTVTAARTVEIIQVDEIDIPATSAATAAPSGVSGEAVLPT 600  
 Y 601 IHDHINNTYKPAHGAHTWNSLNSLHPTVTITISPEYIIQHTTKDKVQETQI 653  
 b 601 IHDHINNTYKPAHGAHTWNSLNSLHPTVTITISPEYIIQHTTKDKVQETQI 653

RESULT 34

US-09-997-573-229

Sequence 229, Application US/09997573

Publication No. US20030049682A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoli, Nicholas P.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC45  
 CURRENT APPLICATION NUMBER: US/09/997,573  
 CURRENT FILING DATE: 2001-11-15  
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 3440; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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1  MKLLWQVTHHTWNAILLPFVYLTQWILCAAIAAASAGPQNCPSVCSCSNQPSKV 60

61  CTRGRLSEVQGPISNTRYLNMENNITOMTQDTRFRLHLEVLQJGRNSIRQIEVGAPN 120
61  CTRGRLSEVQGPISNTRYLNMENNITQIQAOTFRHLAHLQJGRNSIRQIEVGAPN 120

121  GLASANTLSEFNWMLTVTPSGAFVYLSKIRELWLNPNPIESIPSYAFNVPSLMRLDGE 180
121  GLASLNTLSEFNWMLTVTPSGAFVYLSKIRELWLNPNPIESIPSYAFNVPSLMRLDGE 180

181  LKKLEYISSEGAEGFLNLYNLGLNMCNIKMPNLTPLVGLLEEMSGNHFFPIRPGSFHG 240
181  LKKLEYISSEGAEGFLNLYNLGLNMCNIKMPNLTPLVGLLEEMSGNHFFPIRPGSFHG 240

241  LSSSKKLWYNSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLSTPLRYLVELHLHHN 300
241  LSSSKKLWYNSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLSTPLRYLVELHLHHN 300

301  PNCDCDILKLAWLREYIPTNSCCGRCIAPMEMRGYILVEVDQASFOCSAFFIMDAPR 360
301  PNCDCDILKLAWLREYIPTNSCCGRCIAPMEMRGYILVEVDQASFOCSAFFIMDAPR 360

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QY 421 VTCWTVNAGNSASAYLNVSTAEALNTSNYSFFTTVTTEISPEDTTRKYPVPTTS 480
DB 421 VTCWTVNAGNSASAYLNVSTAEALNTSNYSFFTTVTTEISPEDTTRKYPVPTTS 480
QY 481 TGYQPAYTSTVLIQTTTRVPOKQVAVPATDTTDXKQTSLEDVWMTTKLIIIGCPVAVTLLA 540
DB 481 TGYQPAYTSTVLIQTTTRVPOKQVAVPATDTTDXKQTSLEDVWMTTKLIIIGCPVAVTLLA 540
QY 541 AAMLIVFYKLARKRHQORSTVTAARTVEIIOVDEIDPAATSAATAAPSGVSGEGAVVLP 600
DB 541 AAMLIVFYKLARKRHQORSTVTAARTVEIIOVDEIDPAATSAATAAPSGVSGEGAVVLP 600
QY 601 IDHINYNTPYPAHGAHTENSLSLHPTVTTSISEPYIIQTHTKDKVQETQI 653
DB 601 IDHINYNTPYPAHGAHTENSLSLHPTVTTSISEPYIIQTHTKDKVQETQI 653

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; Publication No. US20030050457A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC50
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
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APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC16  
CURRENT APPLICATION NUMBER: US/09/990,726  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/066770  
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;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWAILLPVYLAQWILCAIAAASAGPQNCPSVCSCSNQFSKV 60  
DB 1 MKLLQVTVHHTWAILLPVYLAQWILCAIAAASAGPQNCPSVCSCSNQFSKV 60  
QY 61 CTRRGLSEVPOGIPNTRYLNLMMENNIQMIQADTFRHLHLVLQLGNSIRQIEVGAFN 120  
DB 61 CTRRGLSEVPOGIPNTRYLNLMMENNIQMIQADTFRHLHLVLQLGNSIRQIEVGAFN 120  
QY 121 GLASINTLEFPNNLTWIPSGAFYLSKRLWLBNNDIESIPSYAFNRVPSLRLDGE 180  
DB 121 GLASINTLEFPNNLTWIPSGAFYLSKRLWLBNNDIESIPSYAFNRVPSLRLDGE 180  
QY 181 LKXLEYISEGAFEGFLNKLNLGMCNIDKMPNLTPLVGLBELEMSGNHFFPIRPGSFHG 240  
DB 181 LKXLEYISEGAFEGFLNKLNLGMCNIDKMPNLTPLVGLBELEMSGNHFFPIRPGSFHG 240  
QY 241 LSSLKKLWPNQVSLIERNAPDGLASVELNLANNLSLPHDLFTPLRYLVLEHLHFN 300  
DB 241 LSSLKKLWPNQVSLIERNAPDGLASVELNLANNLSLPHDLFTPLRYLVLEHLHFN 300  
QY 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSAPFIMDAPR 360  
DB 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSAPFIMDAPR 360  
QY 361 DLNISEGRVAELKCRTPPMSSVKLLPNGTVLSHASRHRISVLNDGTLNFSHVLLSDTG 420  
DB 361 DLNISEGRVAELKCRTPPMSSVKLLPNGTVLSHASRHRISVLNDGTLNFSHVLLSDTG 420  
QY 421 VYTCWTVNAGNSNAYSALNSTABLNTSNYSFFTTVTIVETTELSPDTRKYPVPTTS 480  
DB 421 VYTCWTVNAGNSNAYSALNSTABLNTSNYSFFTTVTIVETTELSPDTRKYPVPTTS 480

QY 481 TGYQPAYTSTTVLIQTTTRVPKQVAVPAIDTDDXQVTSLSLDMKTKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVLIQTTTRVPKQVAVPAIDTDDXQVTSLSLDMKTKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVLPT 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVLPT 600  
QY 601 IHDHINYNTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 37

US-09-997-559-229  
; Sequence 229, Application US/09997559  
; Publication NO. US20030054403A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC40  
; CURRENT APPLICATION NUMBER: US/09/997,559  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
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67	PRIOR APPLICATION NUMBER: 60/091982
68	PRIOR FILING DATE: 1998-07-07
69	PRIOR APPLICATION NUMBER: 60/092182
70	PRIOR FILING DATE: 1998-07-09

Query Match	100.0%;	Score 3440;	DB 11;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 1.2e-293;		

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L M Q V T V H H T W N A I L L F V Y L T A Q W M L C A A I A A A A S A G E Q N C P S V C S C S N Q F S K V 60  
D b 1 M K L L M Q V T V H H T W N A I L L F V Y L T A Q W M L C A A I A A A A S A G E Q N C P S V C S C S N Q F S K V 60

Qy 61 C T G R G I S E V P G G I P S N T R Y L N L M E N N I Q M O A D T F R H L H L E V L Q L G R N S I R O I E V G A F N 120  
D b 61 C T G R G I S E V P G G I P S N T R Y L N L M E N N I Q M O A D T F R H L H L E V L Q L G R N S I R O I E V G A F N 120

Qy 121 G L A S L N T L E L F D N W L T V P S G A F E Y L S K L R E L M L R N N P I E S P S V A F N R V P S L M D L D G E 180  
D b 121 G L A S L N T L E L F D N W L T V P S G A F E Y L S K L R E L M L R N N P I E S P S V A F N R V P S L M D L D G E 180

Qy 181 L K L E Y I S E G A P G L F N L K Y L N G M C N I K D M P N L T P L V G L E B L E M S H P F I R P G S P F G 240  
D b 181 L K L E Y I S E G A P G L F N L K Y L N G M C N I K D M P N L T P L V G L E B L E M S H P F I R P G S P F G 240

Qy 241 L S S L K L L W N V N S Q V S I T E R N A F D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
D b 241 L S S L K L L W N V N S Q V S I T E R N A F D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300

Qy 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M E G R V L V E D Q A S F Q C S A P F I M D A P R 360  
D b 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M E G R V L V E D Q A S F Q C S A P F I M D A P R 360

Qy 361 D L A I S E G M A E L K R C P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
D b 361 D L A I S E G M A E L K R C P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420

Qy 421 V Y T C M W N V A G N S A Y L N V S T A E L N T S N Y S F T T V T T E T T I S P E D T T R K Y K P V P T S 480  
D b 421 V Y T C M W N V A G N S A Y L N V S T A E L N T S N Y S F T T V T T E T T I S P E D T T R K Y K P V P T S 480

Qy 481 T G Y O P A T T S T T V L I O T T R V P K V A P A T T D X M Q T S L D E V K M T K I I L G C F A V A T L L A 540  
D b 481 T G Y O P A T T S T T V L I O T T R V P K V A P A T T D X M Q T S L D E V K M T K I I L G C F A V A T L L A 540

Qy 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
D b 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

Qy 601 I H D H I N Y N T K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I O T H T K D K V Q E T O I 653  
D b 601 I H D H I N Y N T K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I O T H T K D K V Q E T O I 653

## RESULT 38

US-09-997-601-229

Sequence 229, Application US/09997601

Publication No. US2003003404A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730PIC36

CURRENT APPLICATION NUMBER: US/09/997,601

CURRENT FILING DATE: 2001-11-15

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

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1 PRIOR FILING DATE: 1998-06-25  
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1 PRIOR APPLICATION NUMBER: 60/091633  
1 PRIOR FILING DATE: 1998-07-02  
1 PRIOR APPLICATION NUMBER: 60/091978  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/091982  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/092182  
1 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFPHLHLEVLQGRNSIROIEVGA 120  
Db 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFPHLHLEVLQGRNSIROIEVGA 120

Qy 121 GLASINTLELFDNWLTVIPSGAFYLSKRLWRNPNIESIPSYAFNRPVPSLMRLDGE 180  
Db 121 GLASINTLELFDNWLTVIPSGAFYLSKRLWRNPNIESIPSYAFNRPVPSLMRLDGE 180

Qy 181 LKLEYISEGAFEGLEFNLYNLGMCKIKDMPNLTPLVGLLELEMSGNHPPETIRPGSPHG 240  
Db 181 LKLEYISEGAFEGLEFNLYNLGMCKIKDMPNLTPLVGLLELEMSGNHPPETIRPGSPHG 240

Qy 241 LSSLLKLWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVLELHNN 300  
Db 241 LSSLLKLWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVLELHNN 300

Qy 301 PWNCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASFOCSAPFIMDAPR 360  
Db 301 PWNCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASFOCSAPFIMDAPR 360

Qy 361 DLNISEGRMAELKCRTPPMSSVWMLLPNGTVLSHSHRPRISVLNDGTNLSHVLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVWMLLPNGTVLSHSHRPRISVLNDGTNLSHVLSDTG 420

Qy 421 VYTCMVTVNAGNSNAYLANVSTAELNTSNYSFFTIVTVETTEISPEDTTRYKPVPTTS 480  
Db 421 VYTCMVTVNAGNSNAYLANVSTAELNTSNYSFFTIVTVETTEISPEDTTRYKPVPTTS 480

Qy 481 TGYQPAYTSTTVLIQTTRVPKQVAPVATDITDKQOTSLDEVMKTKIIGCFVAVTLA 540  
Db 481 TGYQPAYTSTTVLIQTTRVPKQVAPVATDITDKQOTSLDEVMKTKIIGCFVAVTLA 540

Qy 541 AAMLIVFYKLRKHQRORSTVTAARTVEIICQVEDIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIVFYKLRKHQRORSTVTAARTVEIICQVEDIPAAATSAATAAPSGVSGEAVLPT 600

D5 541 AAMLIYFKLRKHHQQRSTVTAAKTVEIIQVDEIDIPAATSAATAAPSGVGEGAVULPT 600  
 QY 601 IHDIHINYNTYKPAHGAHWIENSIGNSLHPTVTITISEPYIIQTHTRDKVKQETQI 653  
 DB 601 IHDIHINYNTYKPAHGAHWIENSIGNSLHPTVTITISEPYIIQTHTRDKVKQETQI 653

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RESULT 39  
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 ; Sequence 229, Application US/09990443  
 ; Publication No. US20030054987A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Kurney, Austin L.  
 ; APPLICANT: KJavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C12  
 ; CURRENT APPLICATION NUMBER: US/09/990,443  
 ; CURRENT FILING DATE: 2001-11-14  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
 ; PRIOR FILING DATE: 1997-11-12  
 ; PRIOR APPLICATION NUMBER: 60/065311  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 y 1 M K L L W V T V H H T W N A I L P F Y L T A Q V W I L C A A I A A A S A G P Q C P S V C S C N O F S K V V 60  
 b 1 M K L L W V T V H H T W N A I L P F Y L T A Q V W I L C A A I A A A S A G P Q C P S V C S C N O F S K V V 60  
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Db 61 C T T R G L S E V F Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Qy 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
 Db 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
 Qy 181 L K L E Y I S E G A F G L E N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H P F E I R P G S F H G 240  
 Db 181 L K L E Y I S E G A F G L E N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H P F E I R P G S F H G 240  
 Qy 241 L S S L K L W V N S Q V S L I E R N A F D G L A S L V E L A N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300  
 Db 241 L S S L K L W V N S Q V S L I E R N A F D G L A S L V E L A N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300  
 Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
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 Qy 361 D L A I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V I N D G T I L N F S H V L S D T G 420  
 Db 361 D L A I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V I N D G T I L N F S H V L S D T G 420  
 Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
 Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
 Qy 481 T G O P A Y T T S T T V L I O T T R V P K O V A P A T D T T D K M O T S L D E V N K T K I I I G C F V A V T L A 540  
 Db 481 T G O P A Y T T S T T V L I O T T R V P K O V A P A T D T T D K M O T S L D E V N K T K I I I G C F V A V T L A 540  
 Qy 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 Db 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 Qy 501 I H D H I N Y T K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I O T H T K D K V Q E T O I 653  
 Db 601 I H D H I N Y T K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I O T H T K D K V Q E T O I 653

RESULT 40  
 US-09-991-854-229  
 ; Sequence 229, Application US/09991854  
 ; Publication No. US20030059780A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC24  
 ; CURRENT APPLICATION NUMBER: US/09/991,854

1 CURRENT FILING DATE: 2001-11-14  
2 PRIOR APPLICATION NUMBER: 60/049787  
3 PRIOR FILING DATE: 1997-06-16  
4 PRIOR APPLICATION NUMBER: 60/062250  
5 PRIOR FILING DATE: 1997-10-17  
6 PRIOR APPLICATION NUMBER: 60/065186  
7 PRIOR FILING DATE: 1997-11-12  
8 PRIOR APPLICATION NUMBER: 60/065311  
9 PRIOR FILING DATE: 1997-11-13  
10 PRIOR APPLICATION NUMBER: 60/066770  
11 PRIOR FILING DATE: 1997-11-24  
12 PRIOR APPLICATION NUMBER: 60/075945  
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14 PRIOR APPLICATION NUMBER: 60/078910  
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17 PRIOR FILING DATE: 1998-04-28  
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22 PRIOR APPLICATION NUMBER: 60/087607  
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107 PRIOR FILING DATE: 1998-06-22  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 13; Length 653;  
 Best local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A I A A A S A G F Q C P S V C S C S N F S K V 60  
 b 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A I A A A S A G F Q C P S V C S C S N F S K V 60  
 Y 61 C T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 b 61 C T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Y 121 G L A S A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P L E S T P S Y A F N R V P S L M E L D L G E 180  
 b 121 G L A S A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P L E S T P S Y A F N R V P S L M E L D L G E 180  
 Y 181 L K L E V I S E G A F G L F N L K Y L A N L G M C N I K D M P N L T P L V G L E L E M S G N H F P P I R P G S F H G 240  
 b 181 L K L E V I S E G A F G L F N L K Y L A N L G M C N I K D M P N L T P L V G L E L E M S G N H F P P I R P G S F H G 240  
 Y 241 L S L K L W M N S Q V S L I E R N A P D G L A S L V E L M L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
 b 241 L S L K L W M N S Q V S L I E R N A P D G L A S L V E L M L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
 Y 301 P M N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F O C S A P F I M D A P R 360  
 b 301 P M N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F O C S A P F I M D A P R 360  
 Y 361 D L N I S E R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 b 361 D L N I S E R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 Y 421 V Y T C M T N V A G N S A Y L N V S T A E L N T S N F F T V T V E T T E I S P E D T T R Y K V P T T S 480  
 b 421 V Y T C M T N V A G N S A Y L N V S T A E L N T S N F F T V T V E T T E I S P E D T T R Y K V P T T S 480  
 Y 481 T G Y Q P A Y T T S T V L I Q T T R V P K V A P A T D T T D K M Q T S L D E V M K T K I I G C F V A V T L L A 540  
 b 481 T G Y Q P A Y T T S T V L I Q T T R V P K V A P A T D T T D K M Q T S L D E V M K T K I I G C F V A V T L L A 540  
 Y 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A T A A P S G V S G E G A V L P T 600  
 b 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A T A A P S G V S G E G A V L P T 600  
 Y 601 I H D H I N T Y K P A G A R H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
 b 601 I H D H I N T Y K P A G A R H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

RESULT 41  
 US-09-997-628-229  
 ; Sequence 229, Application US/09997628  
 ; Publication No. US20030059782A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2730PIC30  
 ; CURRENT APPLICATION NUMBER: US/09/997,628  
 ; PRIOR FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCLAQVTVHHTWNAILLPVYLTQAVWILCAIAAASAGPQNCPSVCSNQSXV 60

DB 1 MCLAQVTVHHTWNAILLPVYLTQAVWILCAIAAASAGPQNCPSVCSNQSXV 60

QY 61 CTRGLSEVPQGISNTRYLNLMENNIQMTQDTFFHLHLEVLQGRNSIRQIEVGAFN 120

DB 61 CTRGLSEVPQGISNTRYLNLMENNIQMTQDTFFHLHLEVLQGRNSIRQIEVGAFN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWLNPNPIESIPSYAFNRVPSLRDLGE 180

DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWLNPNPIESIPSYAFNRVPSLRDLGE 180

181 LKLEYISEGAEGFLNKLNLGNKCNKMPNLTPLVGLLEEMSGNHPEIRPGSFHG 240  
 181 LKLEYISEGAEGFLNKLNLGNKCNKMPNLTPLVGLLEEMSGNHPEIRPGSFHG 240  
 241 LSSKLKLVWNSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 241 LSSKLKLVWNSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 301 PWCDCDILWLAWLREIYPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360  
 301 PWCDCDILWLAWLREIYPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360  
 361 DLNISEGRMAELKCRTPWSSVKMLLPNGTVLSKASHRPRISVLMDGTLNPSHLLSDTG 420  
 361 DLNISEGRMAELKCRTPWSSVKMLLPNGTVLSKASHRPRISVLMDGTLNPSHLLSDTG 420  
 421 VYTCWTVNAGNSASAYLNSTASLNTSNYSFFTVTVTEIISPDFTKXKVPVPTTS 480  
 421 VYTCWTVNAGNSASAYLNSTASLNTSNYSFFTVTVTEIISPDFTKXKVPVPTTS 480  
 481 TGYQPAYTISTVLQITRVPRQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 481 TGYQPAYTISTVLQITRVPRQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 541 AAMLVFKLRKHQRSTVTHARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLTPT 600  
 541 AAMLVFKLRKHQRSTVTHARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLTPT 600  
 601 IDHNINNTYKPAHGAHNTENSLSLHPTVTIISSEPIIOTHKQKQVETQI 653  
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RESULT 42  
 3-09-997-683-229  
 Sequence 229, Application US/09997683  
 Publication No. US20030059783A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kiljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P27302AC32  
 CURRENT APPLICATION NUMBER: US/09/997,683  
 CURRENT FILING DATE: 2001-11-15  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
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Query Match 100.0%; Score 3440; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQSQKV 60  
DB 1 MKLLQVTVHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQSQKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNMENNIMQIQADTFRHLHLEVLQLGNSIRQIEVGA 120  
DB 61 CTRRGLSEVPQGISNTRYLNMENNIMQIQADTFRHLHLEVLQLGNSIRQIEVGA 120  
QY 121 GLASLNTLELFDNMULTVTPSCAFYLSKLRELNRNPIESISYAFNRVPSLMRLDLS 180  
DB 121 GLASLNTLELFDNMULTVTPSCAFYLSKLRELNRNPIESISYAFNRVPSLMRLDLS 180  
QY 181 LKLEVIYISEGAFEGFLNKLGMCMNKDMPNLTPLVGLEELEMNGNHPPEIRPGSFHG 240  
DB 181 LKLEVIYISEGAFEGFLNKLGMCMNKDMPNLTPLVGLEELEMNGNHPPEIRPGSFHG 240  
QY 241 ISSLKLWVMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLTPPIRYLYLHLEHN 300  
DB 241 ISSLKLWVMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLTPPIRYLYLHLEHN 300  
QY 301 PWNCCDILWLAWMLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360  
DB 301 PWNCCDILWLAWMLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360  
QY 361 DLTISEGRMAELKCRTPMSSVXWLLPNGTVLSHASEHPRISVLNDGTILNFSHVLLSDTG 420  
DB 361 DLTISEGRMAELKCRTPMSSVXWLLPNGTVLSHASEHPRISVLNDGTILNFSHVLLSDTG 420  
QY 421 VYTCWTVWAGNSASAYLNVSTAEINTSNYSFFTTVTYVETTEISPEDTTRKYKVPPTTS 480  
DB 421 VYTCWTVWAGNSASAYLNVSTAEINTSNYSFFTTVTYVETTEISPEDTTRKYKVPPTTS 480  
QY 481 TGYQPAYTSTTVLIQTRVPKQVAPATDTDKMOTSLDEVNKTTLIIIGCFVAVTLIA 540  
DB 481 TGYQPAYTSTTVLIQTRVPKQVAPATDTDKMOTSLDEVNKTTLIIIGCFVAVTLIA 540  
QY 541 AAMLIVFYKLKRHQORSTVTAARTVEIIQVDEBIPAAATSAATAAPSGVSGEAVLPT 600  
DB 541 AAMLIVFYKLKRHQORSTVTAARTVEIIQVDEBIPAAATSAATAAPSGVSGEAVLPT 600  
QY 601 IHDHINVTYKPAEGAHWTENSLSNLSHPTVTITISPPYIIOTHKDKVORTOI 653  
DB 601 IHDHINVTYKPAEGAHWTENSLSNLSHPTVTITISPPYIIOTHKDKVORTOI 653

# RESULT 43

US-09-989-729A-229

; Sequence 229, Application US/09989729A

; Publication No. US20030059831A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C59  
CURRENT APPLICATION NUMBER: US/09/989,729A  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
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PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/088167  
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PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293; Mismatches 0; Indels 0; Gaps 0;  
Matches 653; Conservative 0;

QY 1 MKLLQVTVHHTWNAILLPPVYLAQVWILCAATAAASAGPQNCPSVCSCNQPSKV 60  
DB 1 MKLLQVTVHHTWNAILLPPVYLAQVWILCAATAAASAGPQNCPSVCSCNQPSKV 60

QY 61 CTRRGSEVPOGIPSTRYLNLMENNIQMIQADTFRHLHLVQLGNSIRQIEVGAFN 120  
DB 61 CTRRGSEVPOGIPSTRYLNLMENNIQMIQADTFRHLHLVQLGNSIRQIEVGAFN 120

QY 121 GLASLNTLSEFONLWTVIPSGAFYLSKRLRLWLNPNIESIPSYAFNRPVSLKRLDGE 180  
DB 121 GLASLNTLSEFONLWTVIPSGAFYLSKRLRLWLNPNIESIPSYAFNRPVSLKRLDGE 180

QY 181 LKLEYISEGAPGLNLYKYNLGMNCKDMNLTPLVGLLELNSGHHFPEIRPGSPHG 240  
DB 181 LKLEYISEGAPGLNLYKYNLGMNCKDMNLTPLVGLLELNSGHHFPEIRPGSPHG 240

QY 241 LSSLEKLLWVNSQVSIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSSLEKLLWVNSQVSIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHLHN 300

QY 301 PWNCCDILWLAWMLREYIPNTNSTCCGRCHAPMHRGRYLVEVDQASFQCSAPFMDAPR 360  
DB 301 PWNCCDILWLAWMLREYIPNTNSTCCGRCHAPMHRGRYLVEVDQASFQCSAPFMDAPR 360

QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPENGTVLSHASPRLSVLNDGTLNFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPENGTVLSHASPRLSVLNDGTLNFSHVLLSDTG 420

QY 421 VYTCWNTVNVAGNSASAYLNVTAEALNTSNYSFPTTVTVETTEISPEDTTRKYPVPTTS 480  
DB 421 VYTCWNTVNVAGNSASAYLNVTAEALNTSNYSFPTTVTVETTEISPEDTTRKYPVPTTS 480

QY 481 TGYQPAYTTSITVLIOTTRVPKQAVPATDITDKMQTSLDEVMKTKIILIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSITVLIOTTRVPKQAVPATDITDKMQTSLDEVMKTKIILIGCFVAVTLLA 540

QY 541 AMLIVFYKLRKHQRSTVTAARTVEIIQVDEIIPAATAAATAAPSGVSGEGAVVLP 600  
DB 541 AMLIVFYKLRKHQRSTVTAARTVEIIQVDEIIPAATAAATAAPSGVSGEGAVVLP 600

QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 44  
US-09-997-349-229  
; Sequence 229, Application US/09997349  
; Publication No. US20030059832A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC37  
; CURRENT APPLICATION NUMBER: US/09/997,349  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910

us-09-989-279-229.rapb

PRIOR APPLICATION NUMBER:	60/089599
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089600
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089653
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089801
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PRIOR FILING DATE:	1998-06-18
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PRIOR APPLICATION NUMBER:	60/089948
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PRIOR APPLICATION NUMBER:	60/089952
PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION NUMBER:	60/090246
PRIOR FILING DATE:	1998-06-22
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PRIOR FILING DATE:	1998-06-22
PRIOR APPLICATION NUMBER:	60/090349
PRIOR FILING DATE:	1998-06-23
PRIOR APPLICATION NUMBER:	60/090355
PRIOR FILING DATE:	1998-06-23
PRIOR APPLICATION NUMBER:	60/090429
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090431
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090435
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090444
PRIOR FILING DATE:	1998-06-24
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PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090472
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090535
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090540
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090542
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090557
PRIOR FILING DATE:	1998-06-24
PRIOR APPLICATION NUMBER:	60/090676
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PRIOR APPLICATION NUMBER:	60/091360
PRIOR FILING DATE:	1998-07-01
PRIOR APPLICATION NUMBER:	60/091478
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091544
PRIOR FILING DATE:	1998-07-01
PRIOR APPLICATION NUMBER:	60/091519
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091626

;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
2Y 1 MKLHQVTHHTHNAILLPVYTAQWILCAIAAASAGPQNCSCNQSKV 60  
DB 1 MKLHQVTHHTHNAILLPVYTAQWILCAIAAASAGPQNCSCNQSKV 60  
  
2Y 61 CTRRLSVFQIPSNTRYLNMENNIOIADTFRLHLHLEVLQGRNIRQIEVAFN 120  
DB 61 CTRRLSVFQIPSNTRYLNMENNIOIADTFRLHLHLEVLQGRNIRQIEVAFN 120  
  
2Y 121 GLASLNTLEFDNMLTIPSGAFYLSKRLBLNPNPISIPYAFNRVPSLRDLGE 180  
DB 121 GLASLNTLEFDNMLTIPSGAFYLSKRLBLNPNPISIPYAFNRVPSLRDLGE 180  
  
2Y 181 LKKLEYISGAFEGFLNLYLNLGNCNKDMPNLTPLVGLLEELRMSGNHPEIRPGSEHG 240  
DB 181 LKKLEYISGAFEGFLNLYLNLGNCNKDMPNLTPLVGLLEELRMSGNHPEIRPGSEHG 240  
  
2Y 241 LSSLKLWMAVSQVSLIERNADFGLASIVELNLAHNLSSLPDLFTPLRYLVELHLHN 300  
DB 241 LSSLKLWMAVSQVSLIERNADFGLASIVELNLAHNLSSLPDLFTPLRYLVELHLHN 300  
  
2Y 301 PNWCDDILWALWREVIPTNSTCCGCHAPMHRGRYLVEDQASFCASAPFMDAPR 360  
DB 301 PNWCDDILWALWREVIPTNSTCCGCHAPMHRGRYLVEDQASFCASAPFMDAPR 360  
  
2Y 361 DLNISEGMAELKCTPPMSVKNLLPNTGTVLSHARHPRIISVLDNGLNFSHYLLSDTG 420  
DB 361 DLNISEGMAELKCTPPMSVKNLLPNTGTVLSHARHPRIISVLDNGLNFSHYLLSDTG 420  
  
2Y 421 VTCWTVVAGNSASAVLNSTAEINTSNYSFFTVVETTEISPEDTTRKYPVETTS 480  
DB 421 VTCWTVVAGNSASAVLNSTAEINTSNYSFFTVVETTEISPEDTTRKYPVETTS 480  
  
2Y 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTTDKQMSLDEWMTTKIIGCFVAVTLA 540  
DB 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTTDKQMSLDEWMTTKIIGCFVAVTLA 540  
  
2Y 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATSAATAAPSGVSGEGAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATSAATAAPSGVSGEGAVVLP 600  
  
2Y 601 IHDHINYNTYKPAHGAHWNTENSGLNSLHPTVTITSEPVIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWNTENSGLNSLHPTVTITSEPVIIQTHTKDKVQETQI 653

RESULT 45

US-09-997-440-229  
Sequence 229, Application US/09997440  
Publication No. US20030059833A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.

;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tamas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: P2730FIC31  
;; CURRENT APPLICATION NUMBER: US/09/997,440  
;; CURRENT FILING DATE: 2001-11-15  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
;; PRIOR APPLICATION NUMBER: 60/062250  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/065186  
;; PRIOR FILING DATE: 1997-11-12  
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1	PRIOR APPLICATION NUMBER: 60/090535
2	PRIOR FILING DATE: 1998-06-24
3	PRIOR APPLICATION NUMBER: 60/090540
4	PRIOR FILING DATE: 1998-06-24
5	PRIOR APPLICATION NUMBER: 60/090542
6	PRIOR FILING DATE: 1998-06-24
7	PRIOR APPLICATION NUMBER: 60/090557
8	PRIOR FILING DATE: 1998-06-24
9	PRIOR APPLICATION NUMBER: 60/090676
10	PRIOR FILING DATE: 1998-06-25
11	PRIOR APPLICATION NUMBER: 60/090678
12	PRIOR FILING DATE: 1998-06-25
13	PRIOR APPLICATION NUMBER: 60/090690
14	PRIOR FILING DATE: 1998-06-25
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16	PRIOR FILING DATE: 1998-06-25
17	PRIOR APPLICATION NUMBER: 60/090695
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22	PRIOR FILING DATE: 1998-06-26
23	PRIOR APPLICATION NUMBER: 60/090863
24	PRIOR FILING DATE: 1998-06-26
25	PRIOR APPLICATION NUMBER: 60/091360
26	PRIOR FILING DATE: 1998-07-01
27	PRIOR APPLICATION NUMBER: 60/091478
28	PRIOR FILING DATE: 1998-07-02
29	PRIOR APPLICATION NUMBER: 60/091544
30	PRIOR FILING DATE: 1998-07-01
31	PRIOR APPLICATION NUMBER: 60/091519
32	PRIOR FILING DATE: 1998-07-02
33	PRIOR APPLICATION NUMBER: 60/091626
34	PRIOR FILING DATE: 1998-07-02
35	PRIOR APPLICATION NUMBER: 60/091633
36	PRIOR FILING DATE: 1998-07-02
37	PRIOR APPLICATION NUMBER: 60/091978
38	PRIOR FILING DATE: 1998-07-07
39	PRIOR APPLICATION NUMBER: 60/091982
40	PRIOR FILING DATE: 1998-07-07
41	PRIOR APPLICATION NUMBER: 60/092182
42	PRIOR FILING DATE: 1998-07-09

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best local similarity 100.00; local mismatches 0;
Matches 653; Conservative 0; Mismatches 0;
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[illegible]



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Db 361 DINTSEGRMAELKCRTPMSSVGMLLPNGTVLSHSHRPRISVINDGTNLFNSHVLLSDTG 420
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QY 541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGGAVVLP 600
Db 541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGGAVVLP 600
QY 601 IHDHINYNTYPAHGAHWTEHNSLHSTVTTTISEPYIIQTHTKDKVQSTQI 653
Db 601 IHDHINYNTYPAHGAHWTEHNSLHSTVTTTISEPYIIQTHTKDKVQSTQI 653

RESULT 46
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; Sequence 229, Application US/09990440
; Publication No. US20030060407A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC21
; CURRENT APPLICATION NUMBER: US/09/990,440
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801

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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07

; PRIOR APPLICATION NUMBER: 60/092182  
; PRIOR FILING DATE: 1998-07-09  
Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MKLLNQVTVHHHTWNAILLPFVYLTAAQWILCAATAAASAGPQPCPSVCSCSNQPSKV 60  
Qy 61 CTRRGISEVPOGIPSNTRYLNLMENNIOMIADTFRHLHLHLVQLGRNSIRQIEVGAFN 120  
Db 61 CTRRGISEVPOGIPSNTRYLNLMENNIOMIADTFRHLHLHLVQLGRNSIRQIEVGAFN 120  
Qy 121 GLASINTLELFDNWLTVIPSGAFYLSKRLRELNPNPIESIPSYAFNRVPSLMRLDGE 180  
Db 121 GLASINTLELFDNWLTVIPSGAFYLSKRLRELNPNPIESIPSYAFNRVPSLMRLDGE 180  
Qy 181 LKLEYISSEGAPEGLFNKYLNLGMCNIKDMENLPLVGLBELEMSGNHFFPIRPGSFHG 240  
Db 181 LKLEYISSEGAPEGLFNKYLNLGMCNIKDMENLPLVGLBELEMSGNHFFPIRPGSFHG 240  
Qy 241 LSSKKLWYNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
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Qy 301 PNMCCDILWLAWLREYIPTNSTCCGRCHAPWHRGRYLVEVDQASFOCSAPFIMDAPR 360  
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Qy 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHASRPRISVLNDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHASRPRISVLNDGTLNFSHVLLSDTG 420  
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RESULT 47  
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; Sequence 229, Application US/09993469  
; Publication No. US20030068623A1  
; GENERAL INFORMATION:  
; APPLICANT: Askenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P13  
CURRENT APPLICATION NUMBER: US/09/993,469  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
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b 1 MKLLWQVTHHTWNAIIPFVYLAQWILCAATAAASAGPQPCVSCSNQFSKV 60  
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b 61 CTRRGLSEVPQGPSNTRYLNLMENNMIQADTFPHLHLEVLQLGNSIRQIEVGAFN 120  
y 121 GLASINTLELFDNWLTVIPSGAFYLSKRLWLNPNPTESIPSYAFNRPVSLKELDLGE 180  
b 121 GLASINTLELFDNWLTVIPSGAFYLSKRLWLNPNPTESIPSYAFNRPVSLKELDLGE 180  
y 181 LKXLEYISGAFEGLENKXLYLMGCMNKLPLVGLBLELEMSGNHFFPEIRPGSPHG 240  
b 181 LKXLEYISGAFEGLENKXLYLMGCMNKLPLVGLBLELEMSGNHFFPEIRPGSPHG 240  
y 241 LSSLKLLWNNQSVSLIERNADFGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300  
b 241 LSSLKLLWNNQSVSLIERNADFGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300  
y 301 PMWCDCDILWNLWLELYPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFTMDAPR 360  
b 301 PMWCDCDILWNLWLELYPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFTMDAPR 360  
y 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRIVLNDGTINSHVLLSDTG 420  
b 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRIVLNDGTINSHVLLSDTG 420  
y 421 VYTCMTWTVAGNSAYLNVALENTNSGFFTVTVETTEISPEDTRKYKEVPPTS 480  
b 421 VYTCMTWTVAGNSAYLNVALENTNSGFFTVTVETTEISPEDTRKYKEVPPTS 480  
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DB 481 TGYPQAYTTSTTVLIQTTRVPKQVAPATDTTDKQVLSLDEVMKTKIIIGCFVAVTLLA 540  
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; Publication No. US20030068647A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
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; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, F. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC26  
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; CURRENT FILING DATE: 2001-11-15  
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140 PRIOR APPLICATION NUMBER: 60/092182  
141 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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ESULT 49

S-09-993-748-229

Sequence 229, Application US/09993748

Publication No. US20030089403A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Borstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavini, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas P.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC23  
 CURRENT APPLICATION NUMBER: US/09/993,748  
 CURRENT FILING DATE: 2001-11-14  
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Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293; Mismatches 0; Indels 0; Gaps 0;  
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Db 61 CTRRGLSEVPQGISNTRYLNMENNIOQTDFRHLHLVQLGRNSIRQIEVCAFN 120

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Db 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELMLRNNPIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEYISEGAFGLFNLKYLNLMGNIKOMPNLTPLVGLLEEMSGNHPPFIRPGSFHG 240  
Db 181 LKLEYISEGAFGLFNLKYLNLMGNIKOMPNLTPLVGLLEEMSGNHPPFIRPGSFHG 240

QY 241 LSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
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QY 301 PWCDCDILMAWMLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPPINDAPR 360  
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QY 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHSHRPRISVLNDGTILNFSVLISDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHSHRPRISVLNDGTILNFSVLISDTG 420

QY 421 VYTCWVTNVAGNSNASAYLNVSTAELNLSNYSPFTTVTTEIISPEDTRTKYKVPFTTS 480  
Db 421 VYTCWVTNVAGNSNASAYLNVSTAELNLSNYSPFTTVTTEIISPEDTRTKYKVPFTTS 480

QY 481 TGYQPAYTTSTVLIQTRYPKQVAPATDITDKMOTSLDEVNKTTLIIGCTVAVTLLA 540  
Db 481 TGYQPAYTTSTVLIQTRYPKQVAPATDITDKMOTSLDEVNKTTLIIGCTVAVTLLA 540

QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLP 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLP 600

601 IHDHINNTYKPAHGAHWTEHSLGNSLHPTVTITSEPVIIQHTTKDKVQETQI 653  
 601 IHDHINNTYKPAHGAHWTEHSLGNSLHPTVTITSEPVIIQHTTKDKVQETQI 653

SULT 50

1-09-990-439-229

Sequence 229, Application US/09990439

Publication No. US20030073090A1

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APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730P1C52

CURRENT APPLICATION NUMBER: US/09/990,439

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PRIOR APPLICATION NUMBER: 60/049787

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PRIOR FILING DATE: 1998-07-09

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Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 CTRRGLESEVPOGIPSTRYINLMENNIOIQADTFRHLHLEVLQLGNSIRQIEVGA 120  
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QY 121 GLASINTLELFDNWLTVIPSGAFEYLSKRELNRNPNIESIPSYAFNRVPSLWRDLGE 180  
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QY 241 LSSLKLUWVNSQVSLIERNAFDGLASLVELNLAHNNLSSLPDHLFTPLRYLYVELHLHN 300  
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DB 301 PNWCDCDILWLAWLREYIIPTNSTCCGRCHAPMHRGRYLVVEVDQASFOCSAPFIMDAPR 360  
QY 361 DINTSEGRMAELKCRTPMSSVKWLLPENGTVLASHHPRI SVLNDGTNFSHVLLSDTG 420  
DB 361 DINTSEGRMAELKCRTPMSSVKWLLPENGTVLASHHPRI SVLNDGTNFSHVLLSDTG 420  
QY 421 VYTCWTVNVAGNSNASAYLVNSTAELNYSYFFTVTVTETTESISPEDTRKYPVPTTS 480  
DB 421 VYTCWTVNVAGNSNASAYLVNSTAELNYSYFFTVTVTETTESISPEDTRKYPVPTTS 480  
QY 481 TGYQPAYTSTTVILIOTTRVPKQVAVFATDTDKQTSLDVWVKTKIILGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVILIOTTRVPKQVAVFATDTDKQTSLDVWVKTKIILGCFVAVTLLA 540  
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Search completed: February 5, 2004, 15:59:21  
Job time : 44 secs

GenCore version 5.1.1.6  
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V protein - protein search, using sw model

run on: February 5, 2004, 15:51:06 ; Search time 47 Seconds  
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file: US-09-989-279-229

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sequence: 1 MKLLMQVTHHTWAILLP.....ISEPYIQTHTKDKVQETQI 653

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Gapop 60.0 , Capext 60.0

searched: 1107863 seqs, 158726573 residues

ord size : 6

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	653	100.0	653	21	AA224073 Human PRO1111 prot
2	653	100.0	653	21	AAV66694 Membrane-bound pro
3	653	100.0	653	22	AAE09438 Human sbgPRO331a p
4	653	100.0	653	22	AAU12390 Human PRO1111 poly
5	653	100.0	653	22	AAE65217 Human PRO1111 UNQ
6	653	100.0	653	24	AAE66788 Human PRO polypt
7	653	100.0	653	24	AAU67064 Human secreted/tra
8	653	100.0	653	24	ABU59869 Novel secreted and
9	653	100.0	653	24	ABU59110 Novel human secret

Human secreted/tra  
Novel human secret  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human PRO1111 poly  
Human PRO polypt  
Human immunoglobul  
cc359\_4 secreted p  
Human cDNA SEQ ID  
Human polypeptide  
Human SLIT protein  
Human ORFX CRP2B55  
Human leucine rich  
Human SLIT protein  
Human SLIT protein  
Human cDNA SEQ ID  
Human immunoglobul  
Human polypeptide  
Human secreted pro  
Human gene 3 encod  
Human secreted pro  
Human secreted pro  
Human secreted pro  
Human secreted pro  
Human gene 3 encod  
Human secreted pro  
Human secreted pro  
Human nervous syst  
Human novel secret  
Human leucine-rich  
Human nervous syst  
Human novel secret  
Human GPCR related  
Human PRO331 prote  
Novel protein (clo  
Amino acid sequenc  
Human PRO331 prote  
Human PRO331 prote  
Human PRO331 polypt  
Human immune respo  
Human PRO331 prote  
Human PRO331 prote  
Human angio genesis  
Novel human secret  
Human PRO polypt  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human secreted and  
Novel human secret  
Human secreted/tra  
Human secreted/tra  
Human secreted/tra  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human PRO331 polypt  
Human PRO polypt  
Human leucine rich  
Human leucine rich  
Human AS209\_1 secr  
Human leucine rich  
Human leucine rich  
Human leucine rich  
Human secreted pro  
Human secreted pro  
Drosophila melanog  
pinus radiata cell  
Drosophila melanog  
Nephila clavipes s  
N. clavipes spider

83 1.2 80 21 AAG08637 Arabidopsis thalia  
 84 1.2 130 21 AAG04655 Arabidopsis thalia  
 85 1.2 288 22 ABE59846 Drosophila melanog  
 86 1.2 431 22 ABE92274 Drosophila melanog  
 87 1.2 442 22 ABE99920 Human GATA4 protei  
 88 1.2 442 22 AAG64319 Human GATA4 protei  
 89 1.2 442 22 AAG64849 Heart muscle cell  
 90 1.2 453 22 AAG21438 Novel human diagno  
 91 1.2 531 20 AAY40098 Spider silk protei  
 92 1.2 592 21 AAG15484 Arabidopsis thalia  
 93 1.2 595 12 AAR14309 N. clavipes draglin  
 94 1.2 595 19 AAW53347 Nephtia clavipes s  
 95 1.2 595 21 AAY59071 N. clavipes spider  
 96 1.2 601 23 ABB93800 Herbicidally activ  
 97 1.2 613 22 AAB60220 Drosophila melanog  
 98 1.2 620 21 AAB43748 Human cancer assoc  
 99 1.2 623 21 AAG42595 Arabidopsis thalia  
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 109 1.2 882 22 ABBU03083 Drosophila melanog  
 110 1.2 1100 24 ABBU03083 Alpha amylase poly  
 111 1.2 1111 23 AAU79525 Mouse MATER protei  
 112 1.2 1111 24 AAB31748 Mouse MATER protei  
 113 1.2 1218 22 ABB63445 Drosophila melanog  
 114 1.2 1224 22 ABB62191 Drosophila melanog  
 115 1.1 7 17 AAG96113 Peptide provides s  
 116 1.1 9 22 AAM22920 HIV peptide SEQ ID  
 117 1.1 9 22 AAM22968 HIV peptide SEQ ID  
 118 1.1 11 11 AAR08090 Antifreeze segment  
 119 1.1 13 16 AAR84046 Murine MHC class I  
 120 1.1 13 23 ABB97982 Human leucine rich  
 121 1.1 13 23 ABB98003 Human leucine rich  
 122 1.1 16 16 AAR84047 Murine MHC class I  
 123 1.1 25 22 ABB38951 Human liver peptid  
 124 1.1 25 22 ABB38951 Peptide #6457 enco  
 125 1.1 25 22 ABB23934 Protein #5933 enco  
 126 1.1 25 22 AAM59602 Human brain expres  
 127 1.1 25 22 AAM72175 Human bone marrow  
 128 1.1 25 22 AAM19479 Peptide #5913 enco  
 129 1.1 25 22 AAM32435 Peptide #5472 enco  
 130 1.1 25 23 ABB41989 Human peptide enco  
 131 1.1 50 23 ABBP07552 Human ORFX protein  
 132 1.1 52 23 ABBP07791 Human gene 19 enco  
 133 1.1 56 22 AAE03891 Propionibacterium  
 134 1.1 68 22 AAY44831 Staphylococcus epi  
 135 1.1 69 23 ABB39747 Ovary cell-specific  
 136 1.1 73 23 ABBU01092 Human normal blad  
 137 1.1 74 20 AAY60440 Derived protein #1  
 138 1.1 75 11 AAR06468 Human ORF3490 prot  
 139 1.1 77 23 ABB34517 Arabidopsis thalia  
 140 1.1 81 21 AAG33666 Arabidopsis thalia  
 141 1.1 83 21 AAG56133 Arabidopsis thalia  
 142 1.1 85 23 ABBP07984 Human ORFX protein  
 143 1.1 86 24 AAR32382 Human secreted alk  
 144 1.1 86 24 ABB84463 Human SSCP-15 prot  
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 146 1.1 87 21 AAG45657 Arabidopsis thalia  
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 148 1.1 88 23 ABB98388 Cytochrome b5-9.68  
 149 1.1 90 23 ABBP09404 Human ORFX protein  
 150 1.1 92 21 AAY44712 Shorthorn sculpin

## ALIGNMENTS

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 ID AAB24073 standard; Protein; 553 AA.  
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 AC AAB24073;  
 XX  
 DT 29-JAN-2001 (first entry)  
 XX  
 DE Human PRO1111 protein sequence SEQ ID NO:46.  
 XX  
 KW Human; tumour; diagnosis; neoplastic disease; neoplastic cell growth;  
 proliferation; tumorigenesis; identification; cancer; cytostatic;  
 KW nontropic; neuroprotective; antiinflammatory; immunosuppressive;  
 immunostimulant; antiangiogenic; leukaemia; lymphoid malignancy;  
 KW neuronal disorder; glial disorder; astrocytal disorder; angiogenic;  
 KW hypothalamic disorder; glandular disorder; macrophagal disorder;  
 KW epithelial disorder; stromal disorder; blastocoeic disorder;  
 KW inflammatory disorder; immunologic disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200053755-A2.  
 XX  
 PD 14-SEP-2000.  
 XX  
 PF 06-JAN-2000; 2000WO-US00376.  
 XX  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 23-JUN-1999; 99US-0141037.  
 PR 07-JUL-1999; 99US-0143048.  
 PR 26-JUL-1999; 99US-0145698.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 05-JAN-2000; 2000WO-US00219.  
 XX  
 (GETH ) GENENTECH INC.  
 XX  
 PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;  
 PI Watanabe CK, Wood WI;  
 XX  
 DR WPI; 2000-572270/53.  
 DR N-PSDB; AAC58383.  
 XX  
 PT Thirty PRO polynucleotides encoding PRO polypeptides, useful in the  
 PT treatment, diagnosis and prevention of cancer -  
 XX  
 Claim 61; Fig 34; 286pp; English.  
 XX  
 The present invention describes an isolated antibody that binds to  
 one of the human PRO proteins designated PRO212, PRO290, PRO341, PRO535,  
 PRO619, PRO717, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009,  
 PRO1025, PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184,  
 PRO1187, PRO1283, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094, cell  
 PRO2145 OR PRO2198. PRO antagonists can be used to inhibit tumour cell  
 growth. The PRO polypeptides and nucleotides are useful in the  
 treatment, diagnosis and prevention of cancer. The antibodies and other  
 anti-tumour compounds may be used to treat various conditions, including  
 those characterised by overexpression and/or activation of the amplified  
 PRO genes. Exemplary conditions or disorders to be treated with such  
 antibodies and other compounds include benign or malignant tumours  
 (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian,  
 colorectal, prostate, pancreatic, lung, vulva, thyroid, hepatic  
 carcinomas, sarcomas, glioblastomas, and various head and neck tumours),  
 leukaemias and lymphoid malignancies, other disorders such as neuronal,  
 glial, astrocytal, hypothalamic and other glandular, macrophagal,  
 epithelial, stromal and blastocoeic disorders, and inflammatory,  
 CC angiogenic and immunologic disorders. AAC58242 to AAC58366 represent PCR  
 CC primers and hybridisation probes used in the isolation of the human PRO  
 CC sequences. AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human  
 CC PRO polynucleotide and protein sequences given in the exemplification of  
 CC the present invention.  
 CC

Q	Sequence	653 AA;
Query Match	100.0%; Score 653; DB 21; Length 653;	
Best Local Similarity	100.0%; Pred. No. 0;	
Matches	653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
1	MKLLQVTVHHHTWNAILLPFVYLTQAVLILCAAIAAASAGPQCPSVCSGNFQSKV 60	PR 02-JUN-1998; 98US-0087609
2	MKLLQVTVHHHTWNAILLPFVYLTQAVLILCAAIAAASAGPQCPSVCSGNFQSKV 60	PR 02-JUN-1998; 98US-0087759
61	CTRRGLSEVPQIGPSNTRYLNLMENNIQMIQADTFRHLHLEVLQLGRNSIRQIEVGFN 120	PR 03-JUN-1998; 98US-0087827
61	CTRRGLSEVPQIGPSNTRYLNLMENNIQMIQADTFRHLHLEVLQLGRNSIRQIEVGFN 120	PR 04-JUN-1998; 98US-0088021
121	GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPIESIPSAFNPVPSLMRLDGE 180	PR 04-JUN-1998; 98US-0088025
121	GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPIESIPSAFNPVPSLMRLDGE 180	PR 04-JUN-1998; 98US-0088028
181	LKLEYISEGAFGLFKLYNLGMCNLIKMPNLTPVGLBLEHLEMSGNHFPPIRQSGFPG 240	PR 04-JUN-1998; 98US-0088030
181	LKLEYISEGAFGLFKLYNLGMCNLIKMPNLTPVGLBLEHLEMSGNHFPPIRQSGFPG 240	PR 04-JUN-1998; 98US-0088033
241	LSSLKLLWNVQSVLSIERNAFQGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300	PR 04-JUN-1998; 98US-0088326
241	LSSLKLLWNVQSVLSIERNAFQGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300	PR 05-JUN-1998; 98US-0088167
301	PWNCDDILWNLWLEYIPTNSTCCGRCHAPMHMGRYLVEDQASFOCSAPFINDAPR 360	PR 05-JUN-1998; 98US-0088202
301	PWNCDDILWNLWLEYIPTNSTCCGRCHAPMHMGRYLVEDQASFOCSAPFINDAPR 360	PR 05-JUN-1998; 98US-0088212
361	DLNISSEGMALCKRTPPMSSVKWLLPNGTVLHSHGRHPRISVLNDGTLNFSHLLSDTG 420	PR 09-JUN-1998; 98US-0088217
361	DLNISSEGMALCKRTPPMSSVKWLLPNGTVLHSHGRHPRISVLNDGTLNFSHLLSDTG 420	PR 09-JUN-1998; 98US-0088655
421	VYTCMTNVAAGNSAYLNVSTAEILNTSNYSPTVTVETTEISPEDITRKPKPPTTS 480	PR 10-JUN-1998; 98US-0088722
421	VYTCMTNVAAGNSAYLNVSTAEILNTSNYSPTVTVETTEISPEDITRKPKPPTTS 480	PR 10-JUN-1998; 98US-0088734
481	TGYQPAYTTSVTLIQTTRVPKQVAVPATDTDKWQTSLDEVVKTKIILGCFVAVTLIA 540	PR 10-JUN-1998; 98US-0088738
481	TGYQPAYTTSVTLIQTTRVPKQVAVPATDTDKWQTSLDEVVKTKIILGCFVAVTLIA 540	PR 10-JUN-1998; 98US-0088740
541	AAMLIVFYKLRKHQRQSTVTAAATVEIIQVDESDIPAATSAATAAPSGVSGEAVLPT 600	PR 10-JUN-1998; 98US-0088742
541	AAMLIVFYKLRKHQRQSTVTAAATVEIIQVDESDIPAATSAATAAPSGVSGEAVLPT 600	PR 10-JUN-1998; 98US-0088811
601	IHDHINNTVYKPAHGAAGWTENSLGSLHPTVTITISBPYIIQTHTKKQVQETQI 653	PR 10-JUN-1998; 98US-0088824
601	IHDHINNTVYKPAHGAAGWTENSLGSLHPTVTITISBPYIIQTHTKKQVQETQI 653	PR 10-JUN-1998; 98US-0088826
ESULT 2		PR 11-JUN-1998; 98US-0088861
AY66694		PR 11-JUN-1998; 98US-0088876
AA66694	standard; protein; 653 AA.	PR 12-JUN-1998; 98US-0089090
AA66694		PR 12-JUN-1998; 98US-0089105
AA66694		PR 16-JUN-1998; 98US-0089440
AA66694		PR 16-JUN-1998; 98US-0089512
AA66694		PR 16-JUN-1998; 98US-0089514
AA66694		PR 17-JUN-1998; 98US-0089532
AA66694		PR 17-JUN-1998; 98US-0089538
AA66694		PR 17-JUN-1998; 98US-0089598
AA66694		PR 17-JUN-1998; 98US-0089599
AA66694		PR 17-JUN-1998; 98US-0089600
AA66694		PR 17-JUN-1998; 98US-0089653
AA66694		PR 18-JUN-1998; 98US-0089801
AA66694		PR 18-JUN-1998; 98US-0089907
AA66694		PR 18-JUN-1998; 98US-0089947
AA66694		PR 19-JUN-1998; 98US-0089948
AA66694		PR 19-JUN-1998; 98US-0089952
AA66694		PR 22-JUN-1998; 98US-0090246
AA66694		PR 22-JUN-1998; 98US-0090252
AA66694		PR 22-JUN-1998; 98US-0090254
AA66694		PR 23-JUN-1998; 98US-0090349
AA66694		PR 23-JUN-1998; 98US-0090355
AA66694		PR 24-JUN-1998; 98US-0090429
AA66694		PR 24-JUN-1998; 98US-0090431
AA66694		PR 24-JUN-1998; 98US-0090435
AA66694		PR 24-JUN-1998; 98US-0090444
AA66694		PR 24-JUN-1998; 98US-0090445
AA66694		PR 24-JUN-1998; 98US-0090461
AA66694		PR 24-JUN-1998; 98US-0090472
AA66694		PR 24-JUN-1998; 98US-0090535
AA66694		PR 24-JUN-1998; 98US-0090538
AA66694		PR 24-JUN-1998; 98US-0090540
AA66694		PR 24-JUN-1998; 98US-0090557
AA66694		PR 25-JUN-1998; 98US-0090676
AA66694		PR 25-JUN-1998; 98US-0090678
AA66694		PR 25-JUN-1998; 98US-0090688
AA66694		PR 25-JUN-1998; 98US-0090690
AA66694		PR 25-JUN-1998; 98US-0090691
AA66694		PR 25-JUN-1998; 98US-0090694
AA66694		PR 25-JUN-1998; 98US-0090695
AA66694		PR 25-JUN-1998; 98US-0090

PR 26-JUN-1998; 98US-0090863.  
PR 01-JUL-1998; 98US-0091358.  
PR 01-JUL-1998; 98US-0091360.  
PR 01-JUL-1998; 98US-0091544.  
PR 02-JUL-1998; 98US-0091478.  
PR 02-JUL-1998; 98US-0091486.  
PR 02-JUL-1998; 98US-0091519.  
PR 02-JUL-1998; 98US-0091626.  
PR 02-JUL-1998; 98US-0091628.  
PR 02-JUL-1998; 98US-0091633.  
PR 02-JUL-1998; 98US-0091646.  
PR 02-JUL-1998; 98US-0091673.  
PR 07-JUL-1998; 98US-0091978.  
PR 07-JUL-1998; 98US-0091982.  
PR 09-JUL-1998; 98US-0092182.  
PR 10-JUL-1998; 98US-0092472.  
PR 20-JUL-1998; 98US-0093339.  
PR 30-JUL-1998; 98US-0094651.  
PR 04-AUG-1998; 98US-0095282.  
PR 04-AUG-1998; 98US-0095285.  
PR 04-AUG-1998; 98US-0095301.  
PR 04-AUG-1998; 98US-0095302.  
PR 04-AUG-1998; 98US-0095318.  
PR 04-AUG-1998; 98US-0095321.  
PR 04-AUG-1998; 98US-0095325.  
PR 10-AUG-1998; 98US-0095916.  
PR 10-AUG-1998; 98US-0095929.  
PR 10-AUG-1998; 98US-0096012.  
PR 11-AUG-1998; 98US-0096143.  
PR 11-AUG-1998; 98US-0096146.  
PR 12-AUG-1998; 98US-0096329.  
PR 12-AUG-1998; 98US-0096757.  
PR 17-AUG-1998; 98US-0096766.  
PR 17-AUG-1998; 98US-0096768.  
PR 17-AUG-1998; 98US-0096773.  
PR 17-AUG-1998; 98US-0096791.  
PR 17-AUG-1998; 98US-0096867.  
PR 17-AUG-1998; 98US-0096891.  
PR 17-AUG-1998; 98US-0096894.  
PR 17-AUG-1998; 98US-0096895.  
PR 17-AUG-1998; 98US-0096897.  
PR 18-AUG-1998; 98US-0096949.  
PR 18-AUG-1998; 98US-0096950.  
PR 18-AUG-1998; 98US-0096959.  
PR 18-AUG-1998; 98US-0096960.  
PR 18-AUG-1998; 98US-0097022.  
PR 19-AUG-1998; 98US-0097141.  
PR 20-AUG-1998; 98US-0097218.  
PR 24-AUG-1998; 98US-0097661.  
PR 26-AUG-1998; 98US-0097951.  
PR 26-AUG-1998; 98US-0097952.  
PR 26-AUG-1998; 98US-0097954.  
PR 26-AUG-1998; 98US-0097955.  
PR 26-AUG-1998; 98US-0097971.  
PR 26-AUG-1998; 98US-0097974.  
PR 26-AUG-1998; 98US-0097978.  
PR 26-AUG-1998; 98US-0097979.  
PR 26-AUG-1998; 98US-0097986.  
PR 26-AUG-1998; 98US-0098014.  
PR 31-AUG-1998; 98US-0098525.  
PR 16-SEP-1998; 98US-0108634.  
PR 12-JAN-1999; 99US-0115565.

(GETH ) GENENTECH INC.

Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;  
Wood WI, Yuan J;

WPI; 2000-072883/06.  
N-PSDB; AAZ65033.

Membrane-bound proteins and related nucleotide sequences

XX

PS claim 12; Fig 157; 822pp; English.  
XX  
CC The invention provides membrane-bound PRO polypeptides and  
CC polynucleotides encoding them. The PRO sequences of the invention were  
CC identified based on extracellular domain homology screening. The PRO  
CC sequences have homology with proteins including IDL receptors, TIE  
CC ligands and various enzymes. The membrane-bound proteins and receptor  
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor  
CC immunoadhesins, for instance, can be used as therapeutic agents to block  
CC receptor-ligand interactions. The membrane-bound proteins can also be  
CC employed for screening of potential peptide or small molecule inhibitors  
CC of the relevant receptor/ligand interaction. The PRO encoding sequences  
CC are useful as hybridization probes, in chromosome and gene mapping and in  
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences  
CC will also be useful for the preparation of PRO polypeptides, especially  
CC by recombinant techniques.  
XX  
SQ Sequence 653 AA;  
Query Match 100.0%; Score 653; DB 21; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MKLLAQVTVHHTWNAILLPPVYLTAAQWILCAIAAASAGQNCSCVCSNQSXV 60  
DB 1 MKLLAQVTVHHTWNAILLPPVYLTAAQWILCAIAAASAGQNCSCVCSNQSXV 60  
QY 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFRLHLEVLQAGNSIRQIEVAFN 120  
DB 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFRLHLEVLQAGNSIRQIEVAFN 120  
QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRMUNNPIESIPSYAFNRPVSLRLDGE 180  
DB 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRMUNNPIESIPSYAFNRPVSLRLDGE 180  
QY 181 LKLEYIISGAFEGFLNLYLNLCMKIKOMPNTPLVGLLEELMSGNHPEIPSGFHG 240  
DB 181 LKLEYIISGAFEGFLNLYLNLCMKIKOMPNTPLVGLLEELMSGNHPEIPSGFHG 240  
QY 241 LSSLLKLVWMSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHJHN 300  
DB 241 LSSLLKLVWMSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHJHN 300  
QY 301 PNWCDCDILWLAWLREYIPTNSTCCGRCAPMHRGRIYLVVDQASFPQSAPFMDAPR 360  
DB 301 PNWCDCDILWLAWLREYIPTNSTCCGRCAPMHRGRIYLVVDQASFPQSAPFMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMSVQWLLPNTGYLSHARPRISVLNDGTLPFVHLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSVQWLLPNTGYLSHARPRISVLNDGTLPFVHLLSDTG 420  
QY 421 VYTCWTVNAGNSASAYLNTSTALNTSNYSFPFTTVETTESIPEDTKRYKVPPTS 480  
DB 421 VYTCWTVNAGNSASAYLNTSTALNTSNYSFPFTTVETTESIPEDTKRYKVPPTS 480  
QY 481 TGYQPAYTSTTVLIQTTVRPKQVAVPAFTDDTKMQTSLDEVMKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVLIQTTVRPKQVAVPAFTDDTKMQTSLDEVMKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVLPT 600  
DB 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVLPT 600  
QY 601 IHDHININITYKPAHGAHWTENSLGNSLHPTVTITSEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHININITYKPAHGAHWTENSLGNSLHPTVTITSEPYIIQTHTKDKVQETQI 653

RESULT 3

AAE09438

ID AAE09438 standard; Protein; 653 AA.

XX AAE09438;

AC AAE09438;

X I 19-NOV-2001 (first entry)  
X B Human sbgPRO331a protein.  
X X Human; Alzheimer's disease; amyotrophic lateral sclerosis;  
X X AUs; Zollinger-Ellison syndrome; immune system disease; schizophrenia;  
X X Inflammation; haematopoietic disease; anxiety; feeding disorder; aging;  
X X anorexia; depression; cardiovascular disease; sleep disorder; seizure;  
X X memory alteration; migraine; stroke; asthma; neuropathy; hypoglycaemia;  
X X sexual disorder; growth abnormality; infection; autoimmune disease;  
X X rheumatoid arthritis; cataractogenesis; angiogenesis; atherosclerosis;  
X X cerebral ischaemia; cirrhosis; Huntington's disease; Hodgson's disease;  
X X hypercholesterolaemia; headache; amnesia; cardiac arrhythmia; obesity;  
X X diabetes mellitus; glomerulonephritis; renovascular hypertension;  
X X cancer; vaccine; gene therapy; sbgPRO331a gene.  
X S Homo sapiens.  
X N WO200160850-A1.  
X X 23-AUG-2001.  
X D 14-FEB-2001; 2001WO-US04703.  
X F 14-FEB-2000; 2000US-0182172.  
X K 29-FEB-2000; 2000US-0186084.  
X R 18-APR-2000; 2000US-0198583.  
X R 04-OCT-2000; 2000US-0237963.  
X R (SMK ) SMITHKLINE BEECHAM CORP.  
X A (SMK ) SMITHKLINE BEECHAM PLC.  
X A Agarwal P, Kabnick KS, Murdoch PR, Rizvi SK, Smith RP, Xiang Z;  
X I WPI; 2001-536566/59.  
X R N-P8DB; AAD16345.  
X I New secreted and membrane associated polypeptides for treating  
X I Alzheimer's disease, psoriasis, cancer, enterocolitis, sleep and sexual  
X I disorders, stroke, and asthma  
X K Claim 1; Page 56-58; 94pp; English.  
X S The present sequence is a human sbgPRO331a protein.  
X S A membrane bound protein of the invention.  
X S The invention relates to secreted and membrane associated polypeptides  
X S and nucleic acid molecules encoding such polypeptides. Sequences of the  
X S invention are useful for treating diseases such as Alzheimer's disease,  
X S amyotrophic lateral sclerosis (ALS), Zollinger-Ellison syndrome, diseases  
X S of the immune system, haematopoietic disease, inflammation, anxiety,  
X S schizophrenia, feeding disorders, anorexia, depression, social, sexual  
X S and rewarded behaviour, cardiovascular disease, sleep disorder, learning  
X S and memory alteration and altered immune response, seizure, migraine,  
X S cancer, stroke, asthma, neuropathy, aging, sexual disorders, treatment  
X S of transsexuals, growth abnormalities, obesity, infections, autoimmune  
X S diseases (e.g. rheumatoid arthritis), cataractogenesis, angiogenesis,  
X S disorders associated with healthy maintenance of gastric mucosa and  
X S repair of acute and chronic mucosal lesion, lung carcinoma, cerebral  
X S ischaemia, atherosclerosis, cirrhosis, Huntington's disease, headache,  
X S amnesia, multiple sclerosis, Hodgson's disease, dilated cardiomyopathy,  
X S congestive heart failure, cardiac arrhythmias, hypercholesterolaemia,  
X S viral and non-viral hepatitis, type I and type II diabetes mellitus,  
X S glomerulonephritis, renovascular hypertension, hypoglycaemia, periodic  
X S paralyses, tendinitis and malignant hyperthermia. Polypeptides of the  
X S invention are used to identify membrane bound and soluble receptors.  
X S They are also useful as vaccines for inducing an immunological response  
X S in a mammal. Polynucleotides of the invention are used in gene therapy.  
X S They are also valuable for chromosome localisation studies and tissue  
X S expression studies.  
X S Sequence 653 AA;

Query Match	100.0%	Score 653;	DB 22;	Length 653;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 653;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MKLLQVTVVHHHTWNAILLPPFVYLTAQWILCAATAAASAGPQNCPCVCSNQSFKVV	60	
Db	1	MKLLQVTVVHHHTWNAILLPPFVYLTAQWILCAATAAASAGPQNCPCVCSNQSFKVV	60	
Qy	61	CTRGSLSEVPOGIPSNTRYLNMENNIMQIADTFRLHLEVLQLRNSIRQIEVGAFN	120	
Db	61	CTRGSLSEVPOGIPSNTRYLNMENNIMQIADTFRLHLEVLQLRNSIRQIEVGAFN	120	
Qy	121	GLASLNTLFLFNNLTVIPSGAFYLSKLRLNRMNPIESIPSYAFNRVPSLMDLIGE	180	
Db	121	GLASLNTLFLFNNLTVIPSGAFYLSKLRLNRMNPIESIPSYAFNRVPSLMDLIGE	180	
Qy	181	LKKLEYISEGAFEGFLNKLKYLNLGMCNIDKMNPLPLVGLBELEMSGNHFFRIRGSEFHG	240	
Db	181	LKKLEYISEGAFEGFLNKLKYLNLGMCNIDKMNPLPLVGLBELEMSGNHFFRIRGSEFHG	240	
Qy	241	LSSLKCLWYMNQSVSLIERNAFDGLASIVELNLAUNLSSLPHDLFTPLRYLVELLHHN	300	
Db	241	LSSLKCLWYMNQSVSLIERNAFDGLASIVELNLAUNLSSLPHDLFTPLRYLVELLHHN	300	
Qy	301	PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHWGRYLYVEVDQASFOCSAPFIMDAPR	360	
Db	301	PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHWGRYLYVEVDQASFOCSAPFIMDAPR	360	
Qy	361	DLNISGRMAELKCRTPPMSSVKLLPNGTVLSHARHPRISVLNDGTLNFSHVLLSDTG	420	
Db	361	DLNISGRMAELKCRTPPMSSVKLLPNGTVLSHARHPRISVLNDGTLNFSHVLLSDTG	420	
Qy	421	VTCMVTVNAGNSNAYLNWSTABLNSTNSFFTVTVTEISPEDTTRKYKVPPTTS	480	
Db	421	VTCMVTVNAGNSNAYLNWSTABLNSTNSFFTVTVTEISPEDTTRKYKVPPTTS	480	
Qy	481	TGYQPAYTSTTVLITQTRVPKQAVPATDTTDDKMTSLDEVMTTKIIIGCFVAVTLLA	540	
Db	481	TGYQPAYTSTTVLITQTRVPKQAVPATDTTDDKMTSLDEVMTTKIIIGCFVAVTLLA	540	
Qy	541	AAMLIVFYKLRGHQORSTVTAARTVEIIQVDEDEPAATSAATAAPSGVSGEAVLPT	600	
Db	541	AAMLIVFYKLRGHQORSTVTAARTVEIIQVDEDEPAATSAATAAPSGVSGEAVLPT	600	
Qy	601	IHDHINYNTRYKPAHGAHWNTENSLGNSLHPTVTITSEPIIQTHTKDKVQETQI	653	
Db	601	IHDHINYNTRYKPAHGAHWNTENSLGNSLHPTVTITSEPIIQTHTKDKVQETQI	653	

RESULT 4	
AAU12390	
ID	AAU12390 standard; Protein; 653 AA.
XX	AAU12390;
AC	AAU12390;
XX	24-OCT-2001 (first entry)
DT	Human PRO1111 polypeptide sequence.
XX	Human secretory and transmembrane; PRO; mammalian; cancer; lung;
XX	breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
XX	cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
XX	adipocyte; A-peptide; factor VIIa; gene therapy.
OS	Homo sapiens.
XX	WO200140466-A2.
PN	07-JUN-2001.
XX	01-DEC-2000; 2000WO-US32678.
XX	01-DEC-1999; 99WO-US28301.

R 01-DEC-1999; 99WO-US28634.  
 R 02-DEC-1999; 99WO-US28551.  
 R 02-DEC-1999; 99WO-US28564.  
 R 02-DEC-1999; 99WO-US28565.  
 R 09-DEC-1999; 99US-0170262.  
 R 16-DEC-1999; 99WO-US30095.  
 R 20-DEC-1999; 99WO-US30911.  
 R 20-DEC-1999; 99WO-US30999.  
 R 30-DEC-1999; 99WO-US31243.  
 R 06-JAN-2000; 2000WO-US00277.  
 R 11-FEB-2000; 2000WO-US00376.  
 R 18-FEB-2000; 2000WO-US03565.  
 R 18-FEB-2000; 2000WO-US04341.  
 R 22-FEB-2000; 2000WO-US04342.  
 R 24-FEB-2000; 2000WO-US04414.  
 R 24-FEB-2000; 2000WO-US04914.  
 R 24-FEB-2000; 2000WO-US05004.  
 R 01-MAR-2000; 2000WO-US05601.  
 R 20-MAR-2000; 2000WO-US07377.  
 R 21-MAR-2000; 2000WO-US07532.  
 R 30-MAR-2000; 2000WO-US08439.  
 R 17-MAY-2000; 2000WO-US13705.  
 R 22-MAY-2000; 2000WO-US14042.  
 R 30-MAY-2000; 2000WO-US14941.  
 R 02-JUN-2000; 2000WO-US15264.  
 R 10-NOV-2000; 2000WO-US30873.  
 (GETH ) GENENTECH INC.  
 PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 N-PSDB; AAS21462.  
 WPI: 2001-408281/43.  
 Isolated, secretory and transmembrane PRO polypeptide used to detect  
 other PRO polypeptides, link bioactive molecules to cells expressing  
 PRO polypeptides, and detect the presence of mammalian tumours e.g.  
 lung, breast, prostate, cervical  
 Claim 12; Fig 438; 813pp; English.  
 CC AAU12172-AAU12446 represent novel human secretory and transmembrane  
 PRO polypeptides. The PRO polypeptides are useful to detect other  
 PRO polypeptides, to link bioactive molecules to cells expressing  
 PRO polypeptides, to modulate biological activities of cells expressing  
 PRO polypeptides, and to detect the presence of mammalian lung, colon,  
 breast, prostate, rectal, cervical or liver tumours by comparing PRO  
 polypeptide expression in a cell sample to that in a control sample.  
 CC Some of the 2/5 sequences are also useful to stimulate the release of  
 tumour necrosis factor-alpha (TNF-alpha) from human blood, the  
 proliferation or differentiation of chondrocytes, the proliferation or  
 gene expression in pericyte cells, the release of proteoglycans from  
 cartilage, the proliferation of inner ear utricular supporting cells or  
 of T-lymphocytes, the release of a cytokine from peripheral blood  
 monocytes (PBMCs), or the proliferation of endothelial cells. Some of  
 the PRO polypeptides may modulate glucose or free fatty acid uptake by  
 skeletal muscle cells or by adipocytes, or inhibit binding of A-peptide  
 to factor VIIA. The PRO polypeptides can be used in assays to identify  
 molecules involved in binding interactions. The polynucleotides encoding  
 PRO polypeptides can be used to generate probes, antisense RNA/DNA,  
 transgenic or knock out animals and can be used in gene therapy.  
 XX Sequence 653 AA;  
 SQ  
 Query Match 100.0%; Score 653; DB 22; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MLLWQVTHHTWNAILLPFFVYLTQAQWILCAATAAASAGPQPCVCSNCFKVV 60  
 DB 1 MLLWQVTHHTWNAILLPFFVYLTQAQWILCAATAAASAGPQPCVCSNCFKVV 60

QY 61 CTRGLSEVPGQIPSNTRYLNLMENNIQMIQADTFRLHHLHLEVLQGRNSIRQIEVAFN 120  
 DB 61 CTRGLSEVPGQIPSNTRYLNLMENNIQMIQADTFRLHHLHLEVLQGRNSIRQIEVAFN 120  
 QY 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLELWLRNPIESIPSYAFNVPVSLMRDLGCE 180  
 DB 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLELWLRNPIESIPSYAFNVPVSLMRDLGCE 180  
 QY 181 LKLEYISEGAFEGFLNKLKYNLGMCNIKDMNPLTVLGLLEELSELSGNHFPPEIRPGSPHG 240  
 DB 181 LKLEYISEGAFEGFLNKLKYNLGMCNIKDMNPLTVLGLLEELSELSGNHFPPEIRPGSPHG 240  
 QY 241 LSSLLKLWVWNSQVSLIERNAFDGLASLVEINLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
 DB 241 LSSLLKLWVWNSQVSLIERNAFDGLASLVEINLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
 QY 301 PNWCDCDILMLAWLWLRBYIPTNSTCCORCHAPMHMGRYLVEDVDQASFOCSAPFIMDAPR 360  
 DB 301 PNWCDCDILMLAWLWLRBYIPTNSTCCORCHAPMHMGRYLVEDVDQASFOCSAPFIMDAPR 360  
 QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLHSHASHPRI SVLNDGTLNFSHVLLSDTG 420  
 DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLHSHASHPRI SVLNDGTLNFSHVLLSDTG 420  
 QY 421 VYTCWNTVWAGNSASAYLVNSTAELNLSNYSFTTIVTETTESPEDTTRKYPVETTS 480  
 DB 421 VYTCWNTVWAGNSASAYLVNSTAELNLSNYSFTTIVTETTESPEDTTRKYPVETTS 480  
 QY 481 TGYQPAYTTSVTLVLIQITRVKQVAVPATDITDKMOTSLDEVKTKIIGCFVAVTLLA 540  
 DB 481 TGYQPAYTTSVTLVLIQITRVKQVAVPATDITDKMOTSLDEVKTKIIGCFVAVTLLA 540  
 QY 541 AAMLIVFYKLRKHQRSTVTAARTVLIIOVDEIPATSAATAAPSGVSGEAVLPT 600  
 DB 541 AAMLIVFYKLRKHQRSTVTAARTVLIIOVDEIPATSAATAAPSGVSGEAVLPT 600  
 QY 601 IHDHINYNTYKPAHGAWNTENSLGNSLHPTVTITSEPIYIQTHTKDKVQETQI 653  
 DB 601 IHDHINYNTYKPAHGAWNTENSLGNSLHPTVTITSEPIYIQTHTKDKVQETQI 653  
 RESULT 5  
 AAB65217  
 ID AAB65217 standard; Protein; 653 AA.  
 XX  
 AC AAB65217;  
 XX  
 DT 02-APR-2001 (first entry)  
 XX  
 DE Human PRO1111 (UNQ554) protein sequence SEQ ID NO:229.  
 XX  
 KW Human; secreted and transmembrane protein; PRO; cytostatic;  
 KW cell death; cancer; chromosomal mapping; gene mapping; tissue typing;  
 KW diagnostic assay.  
 XX  
 OS Homo sapiens.  
 XX  
 WN WO200073454-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 30-MAR-2000; 2000WO-US08439.  
 XX  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 23-JUN-1999; 99US-0141037.  
 PR 07-JUL-1999; 99US-0143048.  
 PR 20-JUL-1999; 99US-0144758.  
 PR 26-JUL-1999; 99US-0145698.  
 PR 28-JUL-1999; 99US-0146222.  
 PR 17-AUG-1999; 99US-0149396.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.







PR	15-SEP-1999;	99WO-US21090.	PR	16-AUG-2001;	2001US-0931836.	PR	16-AUG-2001;	2001US-0931836.
PR	15-SEP-1999;	99WO-US21547.	PR	19-DEC-2001;	2001US-0028072.	XX		
PR	05-OCT-1999;	99WO-US21089.	XX			XX		
PR	29-NOV-1999;	99WO-US28214.	PA		(GETH ) GENENTECH INC.	XX		
PR	30-NOV-1999;	99WO-US28313.	XX			XX		
PR	30-NOV-1999;	99WO-US28409.	PI		Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;	PI		
PR	01-DEC-1999;	99WO-US28301.	PI		Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;	PI		
PR	01-DEC-1999;	99WO-US28634.	PI		Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;	PI		
PR	02-DEC-1999;	99WO-US28551.	XX			XX		
PR	02-DEC-1999;	99WO-US28551.	XX			XX		
PR	02-DEC-1999;	99WO-US28551.	XX			XX		
PR	02-DEC-1999;	99WO-US28551.	XX			XX		
PR	16-DEC-1999;	99WO-US30095.	XX			XX		
PR	20-DEC-1999;	99WO-US30911.	PT		New secreted and transmembrane PRO nucleic acids, useful for gene	PT		
PR	20-DEC-1999;	99WO-US30999.	PT		therapy, in chromosome and gene mapping, as chromosome markers, in	PT		
PR	22-DEC-1999;	99WO-US30720.	PT		tissue typing, and in chromosome identification	PT		
PR	30-DEC-1999;	99WO-US31243.	XX			XX		
PR	30-DEC-1999;	99WO-US31274.	PS		Claim 12; Fig 438; 660pp; English.	PS		
PR	05-JAN-2000;	2000WO-US00219.	XX			XX		
PR	06-JAN-2000;	2000WO-US00277.	CC		The present invention relates to the isolation of novel human PRO	CC		
PR	06-JAN-2000;	2000WO-US00376.	CC		polypeptides, and the polynucleotide sequences encoding them. The	CC		
PR	11-FEB-2000;	2000WO-US03565.	CC		PRO polypeptides are secreted and transmembrane proteins. The PRO	CC		
PR	18-FEB-2000;	2000WO-US04341.	CC		polypeptides are useful for detecting other PRO polypeptides, for	CC		
PR	18-FEB-2000;	2000WO-US04342.	CC		linking bioactive molecules to cells expressing PRO polypeptides,	CC		
PR	22-FEB-2000;	2000WO-US04414.	CC		for modulating biological activities of cells expressing PRO	CC		
PR	24-FEB-2000;	2000WO-US04914.	CC		polypeptides, and for identifying agonists or antagonists.	CC		
PR	24-FEB-2000;	2000WO-US05084.	CC		The PRO polypeptides are useful for stimulating the release of	CC		
PR	01-MAR-2000;	2000WO-US05601.	CC		tumor necrosis factor (TNF)-alpha from human blood, for stimulating the	CC		
PR	02-MAR-2000;	2000WO-US05746.	CC		the proliferation or differentiation of chondrocytes, and detecting the	CC		
PR	02-MAR-2000;	2000WO-US05841.	CC		presence of tumors. The polynucleotide sequences encoding PRO	CC		
PR	10-MAR-2000;	2000WO-US06319.	CC		polypeptides are useful as hybridisation probes, in chromosome and	CC		
PR	15-MAR-2000;	2000WO-US06884.	CC		gene mapping, in the generation of antisense RNA and DNA, in the	CC		
PR	20-MAR-2000;	2000WO-US07377.	CC		preparation of PRO polypeptides, for generating transgenic animals or	CC		
PR	21-MAR-2000;	2000WO-US07532.	CC		knockout animals, for the genetic analysis of individuals with genetic	CC		
PR	30-MAR-2000;	2000WO-US08439.	CC		disorders, and in gene therapy. ABU66570-ABU66844 represent the human	CC		
PR	17-MAY-2000;	2000WO-US13705.	CC		PRO polypeptides of the invention.	CC		
PR	22-MAY-2000;	2000WO-US14042.	CC		Note: The sequence data for this patent was obtained in electronic	CC		
PR	30-MAY-2000;	2000WO-US14941.	CC		format directly from the USPTO web site at	CC		
PR	02-JUN-2000;	2000WO-US15264.	CC		segdata.uspto.gov/psipsDIDentry.html.	CC		
PR	28-JUL-2000;	2000WO-US20710.	XX			XX		
PR	11-AUG-2000;	2000WO-US22031.	SQ		Sequence 653 AA;	SQ		
PR	23-AUG-2000;	2000WO-US23522.			Query Match 100.0%; Score 653; DB 24; Length 653;			
PR	24-AUG-2000;	2000WO-US23328.			Best Local Similarity 100.0%; Pred. NO. 0;			
PR	08-NOV-2000;	2000WO-US30952.			Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
PR	01-DEC-2000;	2000WO-US30873.	QY		1 MKLLNQVTVHHTWNAILLPFVILTAQVWILCAIAAASAGPQNCPSVCSNQSXV 60			
PR	20-DEC-2000;	2000WO-US34956.	DB		1 MKLLNQVTVHHTWNAILLPFVILTAQVWILCAIAAASAGPQNCPSVCSNQSXV 60			
PR	28-FEB-2001;	2001WO-US06520.	QY		61 CTRGLSEVPQGISNTRYLNLMENNITQADTFRHLHLEVLQGRNSIRQIEGAFN 120			
PR	01-MAR-2001;	2001WO-US06666.	DB		61 CTRGLSEVPQGISNTRYLNLMENNITQADTFRHLHLEVLQGRNSIRQIEGAFN 120			
PR	25-MAY-2001;	2001WO-US17092.	QY		121 GLASINTLELFDNWLTVIPSGAFYLSKLRELWNNPIESIPSYAFNRVPSLWRLDGE 180			
PR	01-JUN-2001;	2001WO-US17800.	DB		121 GLASINTLELFDNWLTVIPSGAFYLSKLRELWNNPIESIPSYAFNRVPSLWRLDGE 180			
PR	22-JUN-2001;	2001WO-US19692.	QY		181 LKLEYISEGAFGLFNLKYINLGMCNKIDMPNLTPLVGLERLEMSGNHPPPEIRPSFHG 240			
PR	29-JUL-2001;	2001WO-US21066.	DB		181 LKLEYISEGAFGLFNLKYINLGMCNKIDMPNLTPLVGLERLEMSGNHPPPEIRPSFHG 240			
PR	20-DEC-2000;	2000US-0747259.	QY		241 LSSLLKLVWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLPTFLRYLYLHLLHN 300			
PR	28-FEB-2001;	2001US-0796498.	DB		241 LSSLLKLVWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLPTFLRYLYLHLLHN 300			
PR	09-MAR-2001;	2001US-0802706.	QY		301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMGRGYLVFVDQASFCQSAFFINDAPR 360			
PR	14-MAR-2001;	2001US-0808689.	DB		301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMGRGYLVFVDQASFCQSAFFINDAPR 360			
PR	05-APR-2001;	2001US-0816744.	QY		361 DINTSEGRMAELKCRTPMSVSKWLLPENGTVLHSHSHPRISVINDGTINFVLLSDTG 420			
PR	10-MAY-2001;	2001US-0828366.	DB		361 DINTSEGRMAELKCRTPMSVSKWLLPENGTVLHSHSHPRISVINDGTINFVLLSDTG 420			
PR	10-MAY-2001;	2001US-0854208.						
PR	10-MAY-2001;	2001US-0854280.						
PR	18-MAY-2001;	2001US-0860216.						
PR	25-MAY-2001;	2001US-0860328.						
PR	25-MAY-2001;	2001US-0866034.						
PR	01-JUN-2001;	2001US-0872035.						
PR	05-JUN-2001;	2001US-0874503.						
PR	14-JUN-2001;	2001US-0882636.						
PR	19-JUN-2001;	2001US-0886342.						
PR	21-JUN-2001;	2001US-0887879.						
PR	18-JUL-2001;	2001US-0908827.						
PR	06-AUG-2001;	2001US-0924419.						
PR	09-AUG-2001;	2001US-0927796.						

Y 421 VTCMTVTVAGNSASAYLVNSTABINTSNYSFFTTVTTEISPELDTTKYKPVPTIS 480  
D 421 VTCMTVTVAGNSASAYLVNSTABINTSNYSFFTTVTTEISPELDTTKYKPVPTIS 480  
Y 481 FGQPAYTSTTVLIQTTTRVPKQVAPVATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
D 481 FGQPAYTSTTVLIQTTTRVPKQVAPVATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
Y 541 AMLIVFYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAGVILPT 600  
D 541 AMLIVFYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAGVILPT 600  
Y 601 IHDHINNTYKPKAGHAHTWENSIGNSLHPTVTTISEPYIIQHTKDKVQETQI 653  
D 601 IHDHINNTYKPKAGHAHTWENSIGNSLHPTVTTISEPYIIQHTKDKVQETQI 653

RESULT 7  
BU67064  
D ABU67064 standard; Protein; 653 AA.  
X X  
C ABU67064;  
X X  
I 27-MAY-2003 (first entry)  
T X  
X Human secreted/transmembrane, PRO, protein SEQ ID 438.  
E X  
E Human; secreted protein; transmembrane protein; PRO;  
K K  
W inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
W infertility; birth defects; premature aging; AIDS; biosensor;  
W acquired immunodeficiency syndrome; cancer; diabetic complication;  
W bioreactor; tumour.  
X S  
X Homo sapiens.  
X X  
N US2003032155-A1.  
X X  
D 13-FEB-2003.  
X X  
F 03-MAY-2002; 2002US-0137865.  
X X

31-MAR-1997; 97WO-US05230.  
R R  
R 12-JUN-1998; 98WO-US12456.  
R R  
R 14-JUL-1998; 98WO-US14552.  
R R  
R 28-AUG-1998; 98WO-US17888.  
R R  
R 10-SEP-1998; 98WO-US18824.  
R R  
R 14-SEP-1998; 98WO-US19093.  
R R  
R 14-SEP-1998; 98WO-US19094.  
R R  
R 14-SEP-1998; 98WO-US19177.  
R R  
R 16-SEP-1998; 98WO-US19330.  
R R  
R 17-SEP-1998; 98WO-US19437.  
R R  
R 07-OCT-1998; 98WO-US21141.  
R R  
R 29-OCT-1998; 98WO-US22991.  
R R  
R 29-OCT-1998; 98WO-US22992.  
R R  
R 20-NOV-1998; 98WO-US24855.  
R R  
R 01-DEC-1998; 98WO-US25108.  
R R  
R 05-JAN-1999; 99WO-US00106.  
R R  
R 08-MAR-1999; 99WO-US05028.  
R R  
R 10-MAR-1999; 99WO-US05190.  
R R  
R 20-APR-1999; 99WO-US08615.  
R R  
R 14-MAY-1999; 99WO-US10733.  
R R  
R 02-JUN-1999; 99WO-US12252.  
R R  
R 01-SEP-1999; 99WO-US20111.  
R R  
R 08-SEP-1999; 99WO-US20594.  
R R  
R 13-SEP-1999; 99WO-US20944.  
R R  
R 15-SEP-1999; 99WO-US21090.  
R R  
R 15-SEP-1999; 99WO-US21547.  
R R  
R 05-OCT-1999; 99WO-US23089.  
R R  
R 29-NOV-1999; 99WO-US28214.  
R R  
R 30-NOV-1999; 99WO-US28313.  
R R  
R 30-NOV-1999; 99WO-US28409.  
R R  
R 01-DEC-1999; 99WO-US28301.  
R R  
R 01-DEC-1999; 99WO-US28634.

PR 02-DEC-1999; 99WO-US28551.  
PR 02-DEC-1999; 99WO-US28564.  
PR 02-DEC-1999; 99WO-US28565.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30911.  
PR 20-DEC-1999; 99WO-US30999.  
PR 22-DEC-1999; 99WO-US310720.  
PR 30-DEC-1999; 99WO-US31243.  
PR 30-DEC-1999; 99WO-US31274.  
PR 03-JAN-2000; 2000WO-US00219.  
PR 08-JAN-2000; 2000WO-US00277.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 18-FEB-2000; 2000WO-US04342.  
PR 23-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04914.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 01-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05746.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15364.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30873.  
PR 01-DEC-2000; 2000WO-US32578.  
PR 20-DEC-2000; 2000WO-US34956.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-MAR-2001; 2001WO-US06666.  
PR 25-MAY-2001; 2001WO-US17092.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 22-JUN-2001; 2001WO-US20116.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 20-DEC-2000; 2000US-0747259.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0802706.  
PR 14-MAR-2001; 2001US-0808689.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 10-MAY-2001; 2001US-0854280.  
PR 18-MAY-2001; 2001US-0860216.  
PR 25-MAY-2001; 2001US-0866028.  
PR 25-MAY-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882636.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908827.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927796.  
PR 16-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.

(GETH ) GENENTECH INC.  
PA  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;



15-SEP-1999; 99WO-US21090.  
 15-SEP-1999; 99WO-US21547.  
 15-OCT-1999; 99WO-US23089.  
 29-NOV-1999; 99WO-US28214.  
 30-NOV-1999; 99WO-US28313.  
 30-NOV-1999; 99WO-US28409.  
 01-DEC-1999; 99WO-US28301.  
 01-DEC-1999; 99WO-US28634.  
 02-DEC-1999; 99WO-US28551.  
 02-DEC-1999; 99WO-US28564.  
 02-DEC-1999; 99WO-US28565.  
 16-DEC-1999; 99WO-US30098.  
 20-DEC-1999; 99WO-US30911.  
 22-DEC-1999; 99WO-US30999.  
 22-DEC-1999; 99WO-US30720.  
 30-DEC-1999; 99WO-US31243.  
 30-DEC-1999; 99WO-US31274.  
 05-JAN-2000; 2000WO-US00219.  
 06-JAN-2000; 2000WO-US00277.  
 06-JAN-2000; 2000WO-US00376.  
 11-FEB-2000; 2000WO-US03565.  
 18-FEB-2000; 2000WO-US04341.  
 18-FEB-2000; 2000WO-US04342.  
 22-FEB-2000; 2000WO-US04414.  
 24-FEB-2000; 2000WO-US04914.  
 24-FEB-2000; 2000WO-US05004.  
 01-MAR-2000; 2000WO-US05601.  
 02-MAR-2000; 2000WO-US05746.  
 02-MAR-2000; 2000WO-US05841.  
 10-MAR-2000; 2000WO-US06319.  
 15-MAR-2000; 2000WO-US06884.  
 20-MAR-2000; 2000WO-US07377.  
 21-MAR-2000; 2000WO-US07532.  
 30-MAR-2000; 2000WO-US08439.  
 17-MAY-2000; 2000WO-US13705.  
 22-MAY-2000; 2000WO-US14042.  
 30-MAY-2000; 2000WO-US14941.  
 02-JUN-2000; 2000WO-US15264.  
 28-JUL-2000; 2000WO-US20710.  
 11-AUG-2000; 2000WO-US22031.  
 23-AUG-2000; 2000WO-US23522.  
 24-AUG-2000; 2000WO-US23328.  
 08-NOV-2000; 2000WO-US30952.  
 10-NOV-2000; 2000WO-US30873.  
 01-DEC-2000; 2000WO-US32678.  
 20-DEC-2000; 2000WO-US34956.  
 28-FEB-2001; 2001WO-US06520.  
 01-MAR-2001; 2001WO-US06666.  
 25-MAY-2001; 2001WO-US17092.  
 01-JUN-2001; 2001WO-US17800.  
 20-JUN-2001; 2001WO-US19692.  
 22-JUN-2001; 2001WO-US20116.  
 29-JUN-2001; 2001WO-US21066.  
 09-JUL-2001; 2001WO-US21735.  
 20-DEC-2000; 2000US-0747259.  
 28-FEB-2001; 2001US-0796498.  
 09-MAR-2001; 2001US-0802706.  
 14-MAR-2001; 2001US-0808689.  
 22-MAR-2001; 2001US-0816744.  
 05-APR-2001; 2001US-0828366.  
 10-MAY-2001; 2001US-0854208.  
 10-MAY-2001; 2001US-0854280.  
 18-MAY-2001; 2001US-0860216.  
 25-MAY-2001; 2001US-0866028.  
 25-MAY-2001; 2001US-0866034.  
 01-JUN-2001; 2001US-0872035.  
 05-JUN-2001; 2001US-0874503.  
 14-JUN-2001; 2001US-0882636.  
 19-JUN-2001; 2001US-0886342.  
 21-JUN-2001; 2001US-0887879.  
 18-JUL-2001; 2001US-0908827.  
 06-AUG-2001; 2001US-0924419.  
 09-AUG-2001; 2001US-0927796.

PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX (GETH ) GENENTECH INC.  
 PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WFI; 2003-148238/14.  
 DR N-PSDB; ABX89359.  
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -  
 XX Claim 12; Fig 438; 659pp; English.  
 XX The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting human PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical insufficiency disorders. PRO1154 and PRO1186  
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumors. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpetiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and  
 CC are thus useful for treating sports injuries, and arthritis. This  
 CC is the amino acid sequence of a novel human PRO protein.  
 XX SQ Sequence 653 AA;  
 Query Match 100.0%; Score 653; DB 24; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 M K L L W Q V T V H H T W N A I L L P V Y L T A Q W I L C A A I A A A S A G P O N C S V C S Q N F S K V 60  
 DB 1 M K L L W Q V T V H H T W N A I L L P V Y L T A Q W I L C A A I A A A S A G P O N C S V C S Q N F S K V 60  
 QY 61 C T F R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 DB 61 C T F R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 QY 121 G L A S I N T L E L F D N W L T V I P S G A F Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L R L D L G E 180  
 DB 121 G L A S I N T L E L F D N W L T V I P S G A F Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L R L D L G E 180  
 QY 181 L K K L E Y I S G A F E G L F N L K Y L N L G M C N I K M P N L T P L V G L E E L E M S G N H P F E I R P G S F H G 240  
 DB 181 L K K L E Y I S G A F E G L F N L K Y L N L G M C N I K M P N L T P L V G L E E L E M S G N H P F E I R P G S F H G 240  
 QY 241 L S S L K L W M M S Q V S L I E R N A P D G L A S I L V E L N L A H N M L S S I P H O L F T P L R Y L V E L H L H N 300  
 DB 241 L S S L K L W M M S Q V S L I E R N A P D G L A S I L V E L N L A H N M L S S I P H O L F T P L R Y L V E L H L H N 300

b	241	LSSLKXKLVNWSQVSLIERNAFDGLASIVELNLAHNNLSSLDHDLFTPLRYLVLELHHN	300	PR	11-FEB-2000;	2000WO-US03565.
y	301	PWNCDDILMAWMLREYIPTNSTCCGRCHAPMWRGRYLVNVDQASQCSAPFIMDAPR	360	PR	18-FEB-2000;	2000WO-US04341.
b	301	PWNCDDILMAWMLREYIPTNSTCCGRCHAPMWRGRYLVNVDQASQCSAPFIMDAPR	360	PR	22-FEB-2000;	2000WO-US04414.
y	361	DLNISGRVAAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTINPSHVLLSDTG	420	PR	24-FEB-2000;	2000WO-US05004.
b	361	DLNISGRVAAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTINPSHVLLSDTG	420	PR	02-MAR-2000;	2000WO-US05841.
y	421	VYTCMTNVAGNSASAYLNVSFAELNTSNYSFFTVTVETTEISPEDTRKXKVPPTTS	480	PR	10-MAR-2000;	2000WO-US06319.
b	421	VYTCMTNVAGNSASAYLNVSFAELNTSNYSFFTVTVETTEISPEDTRKXKVPPTTS	480	PR	15-MAR-2000;	2000WO-US06884.
y	481	TGYOPAYTSTTVLIQTRVPKQVAPFATDTTDMQTSIDVEMKTKIILGCFVAVTLLA	540	PR	20-MAR-2000;	2000WO-US07377.
b	481	TGYOPAYTSTTVLIQTRVPKQVAPFATDTTDMQTSIDVEMKTKIILGCFVAVTLLA	540	PR	30-MAR-2000;	2000WO-US08439.
y	541	AAMLVFPYKLRKHQRSTVTAARTVEIILQVDEDIPAATSAATAAPSGVSGEGAVVLFT	600	PR	15-MAY-2000;	2000WO-US13358.
b	541	AAMLVFPYKLRKHQRSTVTAARTVEIILQVDEDIPAATSAATAAPSGVSGEGAVVLFT	600	PR	17-MAY-2000;	2000WO-US13705.
y	601	IHDHINTNTKPAHGAHWNTENSLGSLHPTVTITISEPYIIQHTXKQVQETQI	653	PR	22-MAY-2000;	2000WO-US14042.
b	601	IHDHINTNTKPAHGAHWNTENSLGSLHPTVTITISEPYIIQHTXKQVQETQI	653	PR	30-MAY-2000;	2000WO-US14941.
RESULT 9						
BU59110						
D	ABU59110	standard; Protein; 653 AA.				
X	ABU59110;					
X	28-APR-2003	(first entry)				
X	Novel human secreted or transmembrane protein PRO1111.					
X	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;					
X	cardiac insufficiency disorder; cancer; tumour; immune response;					
X	adrenal cortical capillary endothelial growth; c-fos induction;					
X	vascular endothelial growth factor inhibition; VEGF inhibition;					
X	endothelial cell growth inhibitor; T-lymphocytes stimulation;					
X	retinal neurons cell survival; rod photoreceptor cell survival;					
X	retinal disorder; retinitis pigmentosa; kidney disease;					
X	mammalian kidney mesangial cell proliferation; Berger disease;					
X	dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation;					
X	chondrocyte redifferentiation; sports injury; arthritis.					
X	Homo sapiens.					
X	US2002132252-A1.					
X	19-SEP-2002.					
X	14-NOV-2001;	2001US-0990442.				
X	05-NOV-1997;	97WO-US20069.				
X	16-SEP-1998;	98WO-US19330.				
X	17-SEP-1998;	98WO-US19437.				
X	07-OCT-1998;	98WO-US21141.				
X	01-DEC-1998;	98WO-US25108.				
X	05-JAN-1999;	99WO-US00106.				
X	08-MAR-1999;	99WO-US05028.				
X	02-JUN-1999;	99WO-US12252.				
X	15-SEP-1999;	99WO-US21090.				
X	30-NOV-1999;	99WO-US28313.				
X	01-DEC-1999;	99WO-US28301.				
X	16-DEC-1999;	99WO-US28634.				
X	20-DEC-1999;	99WO-US30095.				
X	06-JAN-2000;	2000WO-US00219.				
X	06-JAN-2000;	2000WO-US00376.				
PR	11-FEB-2000;	2000WO-US03565.				
PR	18-FEB-2000;	2000WO-US04341.				
PR	22-FEB-2000;	2000WO-US04414.				
PR	24-FEB-2000;	2000WO-US05004.				
PR	02-MAR-2000;	2000WO-US05841.				
PR	10-MAR-2000;	2000WO-US06319.				
PR	15-MAR-2000;	2000WO-US06884.				
PR	20-MAR-2000;	2000WO-US07377.				
PR	30-MAR-2000;	2000WO-US08439.				
PR	15-MAY-2000;	2000WO-US13358.				
PR	17-MAY-2000;	2000WO-US13705.				
PR	22-MAY-2000;	2000WO-US14042.				
PR	30-MAY-2000;	2000WO-US14941.				
PR	02-JUN-2000;	2000WO-US15264.				
PR	28-JUL-2000;	2000WO-US20710.				
PR	11-AUG-2000;	2000WO-US22031.				
PR	23-AUG-2000;	2000WO-US23522.				
PR	24-AUG-2000;	2000WO-US23328.				
PR	08-NOV-2000;	2000WO-US30952.				
PR	01-DEC-2000;	2000WO-US32678.				
PR	28-FEB-2001;	2001WO-US06520.				
PR	01-JUN-2001;	2001WO-US17800.				
PR	20-JUN-2001;	2001WO-US19892.				
PR	29-JUN-2001;	2001WO-US21066.				
PR	09-JUL-2001;	2001WO-US21735.				
PR	16-JUN-1997;	97US-049787P.				
PR	17-OCT-1997;	97US-062250P.				
PR	12-NOV-1997;	97US-065186P.				
PR	13-NOV-1997;	97US-065311P.				
PR	24-NOV-1997;	97US-066770P.				
PR	25-FEB-1998;	98US-075945P.				
PR	20-MAR-1998;	98US-078910P.				
PR	28-APR-1998;	98US-083322P.				
PR	07-MAY-1998;	98US-084600P.				
PR	28-MAY-1998;	98US-087106P.				
PR	02-JUN-1998;	98US-087607P.				
PR	02-JUN-1998;	98US-087609P.				
PR	02-JUN-1998;	98US-087759P.				
PR	03-JUN-1998;	98US-087827P.				
PR	04-JUN-1998;	98US-088021P.				
PR	04-JUN-1998;	98US-088025P.				
PR	04-JUN-1998;	98US-088026P.				
PR	04-JUN-1998;	98US-088028P.				
PR	04-JUN-1998;	98US-088029P.				
PR	04-JUN-1998;	98US-088030P.				
PR	04-JUN-1998;	98US-088033P.				
PR	04-JUN-1998;	98US-088326P.				
PR	05-JUN-1998;	98US-088167P.				
PR	05-JUN-1998;	98US-088202P.				
PR	05-JUN-1998;	98US-088212P.				
PR	05-JUN-1998;	98US-088217P.				
PR	09-JUN-1998;	98US-088655P.				
PR	10-JUN-1998;	98US-088734P.				
PR	10-JUN-1998;	98US-088738P.				
PR	10-JUN-1998;	98US-088742P.				
PR	10-JUN-1998;	98US-088810P.				
PR	10-JUN-1998;	98US-088824P.				
PR	10-JUN-1998;	98US-088826P.				
PR	11-JUN-1998;	98US-088856P.				
PR	11-JUN-1998;	98US-088861P.				
PR	11-JUN-1998;	98US-088876P.				
PR	12-JUN-1998;	98US-089105P.				
PR	16-JUN-1998;	98US-089440P.				
PR	16-JUN-1998;	98US-089512P.				
PR	16-JUN-1998;	98US-089514P.				
PR	17-JUN-1998;	98US-089532P.				
PR	17-JUN-1998;	98US-089538P.				
PR	17-JUN-1998;	98US-089598P.				
PR	17-JUN-1998;	98US-089599P.				
PR	17-JUN-1998;	98US-089600P.				
PR	17-JUN-1998;	98US-089653P.				
PR	18-JUN-1998;	98US-089801P.				

R 18-JUN-1998; 98US-089907P.  
R 18-JUN-1998; 98US-089908P.  
R 28-AUG-2001; 2001US-0941992.  
X (GETH ) GENENTECH INC.  
X Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
X Perrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PU;  
X Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
X Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PW, Wood NJ;  
X Zhang Z;  
X WPI: 2003-247083/24.  
R N-PSDB; ABX80269.  
R Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
X and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
X treatments - useful for enhancing immune response and in cancer  
X Claim 12; Fig 157; 648pp; English.  
X The invention describes an isolated human PRO polypeptide. The PRO  
X polypeptides are useful in detecting PRO polypeptides in a sample, in  
X linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
X in modulating at least one biological activity of a cell expressing a PRO  
X polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
X useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
X stimulate adrenal cortical capillary endothelial growth, and PRO536,  
X PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
X PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
X useful for treating conditions or disorders where angiogenesis would be  
X beneficial, e.g. wound healing and antagonist of this polypeptide are  
X useful for treating cancerous tumours. PRO812 inhibits vascular  
X endothelial growth factor (VEGF) stimulated proliferation of endothelial  
X cells and is thus useful for inhibiting endothelial cell growth in  
X mammals which would be beneficial in inhibiting tumour growth. PRO826,  
X PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
X stimulated T-lymphocytes and are therapeutically useful for enhancing  
X immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
X retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
X rod photoreceptor cells) and therefore are useful for treating retinal  
X disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
X and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
X and therefore are useful for treating kidney disorders associated with,  
X decreased mesangial cell function such as Berger disease or other  
X nephropathies associated with dermatitis, herpeticiformis or Crohn's  
X disease. PRO1310, PRO844, PRO1312, PRO1132 and PRO1387 induce the  
X proliferation and/or redifferentiation of chondrocytes in culture and  
X are thus useful for treating sports injuries, and arthritis. This  
X is the amino acid sequence of a novel human PRO protein.  
Q Sequence 653 AA;  
Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Y 1 MKLLWQVTHHTWNAILLPFFVYLAQWILCAATAAASAGPQNCPSVCSCNQPSKV 60  
b 1 MKLLWQVTHHTWNAILLPFFVYLAQWILCAATAAASAGPQNCPSVCSCNQPSKV 60  
Y 61 CTRRGSEVPGQIPSNTRVNLNMENNIMQADTFRHLHLVQLGNSRQIEVGAFN 120  
b 61 CTRRGSEVPGQIPSNTRVNLNMENNIMQADTFRHLHLVQLGNSRQIEVGAFN 120  
Y 121 GLASLNTLFLDNWLTVPISGAFYLSKRLRLWLNPNPIESIPYAFNRVPSLRLDLGE 180  
b 121 GLASLNTLFLDNWLTVPISGAFYLSKRLRLWLNPNPIESIPYAFNRVPSLRLDLGE 180  
Y 181 LKKLEYISGAFEGFLNLYLNLGNCNIDKDPNLTPLVGLLELWNSGNHPEIRPGSFHG 240  
b 181 LKKLEYISGAFEGFLNLYLNLGNCNIDKDPNLTPLVGLLELWNSGNHPEIRPGSFHG 240

QY 241 LSSLKKLWNNQVSLIERNAPDGLASIVELANHNLSLPHDLFTPLRYLVELHLHN 300  
Db 241 LSSLKKLWNNQVSLIERNAPDGLASIVELANHNLSLPHDLFTPLRYLVELHLHN 300  
QY 301 PNKDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVNVDQASFCQSAPFIMDAPR 360  
Db 301 PNKDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVNVDQASFCQSAPFIMDAPR 360  
QY 361 DLNISGRVAELKCRTPNMSSVKWLLPNGTIVLSHARPRISVINDGTINFSHLLSTG 420  
Db 361 DLNISGRVAELKCRTPNMSSVKWLLPNGTIVLSHARPRISVINDGTINFSHLLSTG 420  
QY 421 VYTCMTNVAGNSNASAYLNVSTAEINTSNYSFFTVTVTEIETSPEDTRKYKVPPTS 480  
Db 421 VYTCMTNVAGNSNASAYLNVSTAEINTSNYSFFTVTVTEIETSPEDTRKYKVPPTS 480  
QY 481 TGYQPAYTTSTTVLIQTTRVPKQVAPATDITDKMQTSLDEVMKTKIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSTTVLIQTTRVPKQVAPATDITDKMQTSLDEVMKTKIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600  
QY 601 IHDHINYNTYKPAHGAHWHTENSIGNSLHFTVTITSEPVIIQTHTKDKVQSTQI 653  
Db 601 IHDHINYNTYKPAHGAHWHTENSIGNSLHFTVTITSEPVIIQTHTKDKVQSTQI 653  
RESULT 10  
ABUS9257  
ID ABUS9257 standard; Protein; 653 AA.  
XX AC ABUS9257;  
XX DT 22-APR-2003 (first entry)  
XX Human secreted/transmembrane protein, #93.  
XX Human; PRO; secreted; transmembrane; pharmaceutical;  
KW diagnostic; biosensor; bioreactor; tumour; therapeutic;  
KW gene therapy; tumour-associated antigenic target; TAT; ADEPT;  
KW antibody-dependent enzyme mediated prodrug therapy; cytostatic.  
XX Homo sapiens.  
OS US2003027162-A1.  
XX 06-FEB-2003.  
XX 15-NOV-2001; 2001US-0997428.  
XX 05-NOV-1997; 97WO-US20069.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 01-DEC-1998; 98WO-US21108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 30-NOV-1999; 99WO-US28313.  
PR 01-DEC-1999; 99WO-US28301.  
PR 01-DEC-1999; 99WO-US28634.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30911.  
PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 22-FEB-2000; 2000WO-US04414.

PR	24-FEB-2000;	200WO-US04914.	PR	19-JUN-1998;	98US-089948P.
PR	24-FEB-2000;	200WO-US05004.	PR	19-JUN-1998;	98US-089952P.
PR	02-MAR-2000;	200WO-US05841.	PR	22-JUN-1998;	98US-090246P.
PR	10-MAR-2000;	200WO-US06319.	PR	22-JUN-1998;	98US-090252P.
PR	15-MAR-2000;	200WO-US06884.	PR	22-JUN-1998;	98US-090254P.
PR	20-MAR-2000;	200WO-US07377.	PR	23-JUN-1998;	98US-090349P.
PR	30-MAR-2000;	200WO-US08439.	PR	23-JUN-1998;	98US-090355P.
PR	15-MAY-2000;	200WO-US13358.	PR	24-JUN-1998;	98US-090429P.
PR	17-MAY-2000;	200WO-US13705.	PR	24-JUN-1998;	98US-090431P.
PR	22-MAY-2000;	200WO-US14042.	PR	24-JUN-1998;	98US-090435P.
PR	30-MAY-2000;	200WO-US14941.	PR	24-JUN-1998;	98US-090444P.
PR	02-JUN-2000;	200WO-US15264.	PR	24-JUN-1998;	98US-090445P.
PR	28-JUL-2000;	200WO-US20710.	PR	24-JUN-1998;	98US-090472P.
PR	11-AUG-2000;	200WO-US22031.	PR	24-JUN-1998;	98US-090525P.
PR	23-AUG-2000;	200WO-US23522.	PR	24-JUN-1998;	98US-090540P.
PR	24-AUG-2000;	200WO-US23328.	PR	24-JUN-1998;	98US-090542P.
PR	08-NOV-2000;	200WO-US30952.	PR	25-JUN-1998;	98US-090557P.
PR	28-FEB-2001;	200WO-US32678.	PR	25-JUN-1998;	98US-090676P.
PR	01-JUN-2001;	200WO-US06520.	PR	25-JUN-1998;	98US-090678P.
PR	20-JUN-2001;	200WO-US17800.	PR	25-JUN-1998;	98US-090690P.
PR	29-JUN-2001;	200WO-US19692.	PR	25-JUN-1998;	98US-090694P.
PR	09-JUL-2001;	200WO-US21066.	PR	25-JUN-1998;	98US-090695P.
PR	16-JUN-1997;	97US-US21735.	PR	25-JUN-1998;	98US-090696P.
PR	17-OCT-1997;	97US-062250P.	PR	26-JUN-1998;	98US-090862P.
PR	12-NOV-1997;	97US-065186P.	PR	01-JUL-1998;	98US-090863P.
PR	13-NOV-1997;	97US-065311P.	PR	01-JUL-1998;	98US-091360P.
PR	24-NOV-1997;	97US-066770P.	PR	02-JUL-1998;	98US-091544P.
PR	25-FEB-1998;	98US-075945P.	PR	02-JUL-1998;	98US-091478P.
PR	20-MAR-1998;	98US-078910P.	PR	02-JUL-1998;	98US-091519P.
PR	28-APR-1998;	98US-083322P.	PR	02-JUL-1998;	98US-091626P.
PR	07-MAY-1998;	98US-084600P.	PR	02-JUL-1998;	98US-091628P.
PR	28-MAY-1998;	98US-087106P.	PR	02-JUL-1998;	98US-091633P.
PR	02-JUN-1998;	98US-087607P.	PR	02-JUL-1998;	98US-091646P.
PR	02-JUN-1998;	98US-087609P.	PR	02-JUL-1998;	98US-091673P.
PR	02-JUN-1998;	98US-087759P.	PR	07-JUL-1998;	98US-091978P.
PR	03-JUN-1998;	98US-087827P.	PR	07-JUL-1998;	98US-091982P.
PR	04-JUN-1998;	98US-088021P.	PR	09-JUL-1998;	98US-092182P.
PR	04-JUN-1998;	98US-088025P.	PR	10-JUL-1998;	98US-092472P.
PR	04-JUN-1998;	98US-088026P.	PR	20-JUL-1998;	98US-093339P.
PR	04-JUN-1998;	98US-088028P.	PR	30-JUL-1998;	98US-094651P.
PR	04-JUN-1998;	98US-088029P.	PR	04-AUG-1998;	98US-095282P.
PR	04-JUN-1998;	98US-088029P.	PR	04-AUG-1998;	98US-095285P.
PR	04-JUN-1998;	98US-088030P.	PR	04-AUG-1998;	98US-095301P.
PR	04-JUN-1998;	98US-088033P.	PR	04-AUG-1998;	98US-095302P.
PR	04-JUN-1998;	98US-088326P.	PR	04-AUG-1998;	98US-095318P.
PR	05-JUN-1998;	98US-088167P.	PR	04-AUG-1998;	98US-095321P.
PR	05-JUN-1998;	98US-088202P.	PR	04-AUG-1998;	98US-095325P.
PR	05-JUN-1998;	98US-088212P.	PR	10-AUG-1998;	98US-095916P.
PR	05-JUN-1998;	98US-088217P.	PR	10-AUG-1998;	98US-095923P.
PR	09-JUN-1998;	98US-088655P.	PR	10-AUG-1998;	98US-096012P.
PR	10-JUN-1998;	98US-088734P.	PR	11-AUG-1998;	98US-096143P.
PR	10-JUN-1998;	98US-088738P.	PR	11-AUG-1998;	98US-096146P.
PR	10-JUN-1998;	98US-088742P.	PR	12-AUG-1998;	98US-096329P.
PR	10-JUN-1998;	98US-088810P.	PR	17-AUG-1998;	98US-096757P.
PR	10-JUN-1998;	98US-088824P.	PR	17-AUG-1998;	98US-096757P.
PR	10-JUN-1998;	98US-088825P.	PR	17-AUG-1998;	98US-096768P.
PR	11-JUN-1998;	98US-088858P.	PR	17-AUG-1998;	98US-096773P.
PR	11-JUN-1998;	98US-088861P.	PR	17-AUG-1998;	98US-096791P.
PR	11-JUN-1998;	98US-088876P.	PR	17-AUG-1998;	98US-096867P.
PR	12-JUN-1998;	98US-089105P.	PR	17-AUG-1998;	98US-096891P.
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121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R L M L R N N P I E S I P S V A F N R V P S L M R L D L G E 180

181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K M E N L T P L V G L E E L M S G N H P E I R P G S F H G 240
181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K M E N L T P L V G L E E L M S G N H P E I R P G S F H G 240

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241 L S L K K L W M S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H L F T P L R Y L V E L H L H N 300

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301 P N W C D C I L L A W L R E V I P T N S T C G R C H A P M E N G R Y L V E V D Q A S F Q C S A P I M D A P R 360

361 D L N I S E G R M A E L K C R T P P M S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420
361 D L N I S E G R M A E L K C R T P P M S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420

421 V T C M W T V N A G S N A S A Y L N V S T A E L N T S N S F F T T V T E T I S P E D T T R K Y K P V P T S 480
421 V T C M W T V N A G S N A S A Y L N V S T A E L N T S N S F F T T V T E T I S P E D T T R K Y K P V P T S 480

481 T G V Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T I L L A 540
481 T G V Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T I L L A 540

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601 I H D H I N Y T K P A R G A H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653
601 I H D H I N Y T K P A R G A H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

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C ABUS9406;
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I 22-APR-2003 (first entry)
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E Novel human secreted or transmembrane protein PRO1344.
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KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
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XX 06-FEB-2003.
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 DB 121 GLASINTLELFDNWLTVIPSGAFYLSKLRELWLNKNPIESIPSYAFNRVPSLMDLGE 180  
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 DB 181 LKLEYISSEGAPEGLFNLKYINTLGMCNIKDNPNTLVLGLEELEMSONHPEIRPQSFHG 240  
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 DB 241 LSSLKULWVNSQVSLTERNAFQGLASVELNLAHNNLSLPHDLPTPLAYVELHLHNN 300  
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K pharmaceutical; diagnostic; therapeutic; gene therapy.  
M Homo sapiens.  
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X US2002160384-A1.  
X 31-OCT-2002.  
X 14-NOV-2001; 2001US-0993598.  
X 05-NOV-1997; 97WO-US200069.  
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PR 18-JUN-1998; 98US-089908P.  
PR 28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
PI Zhang Z;  
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R	13-NOV-1997;	98US-065311P.	PR	01-JUL-1998;	98US-091544P.
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Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	CTRRGLSEVPQIPSNTRYLNLMENNIQMIQADTFHLLHLEVLQIGRNSIRQIEVGA	120
Db	61	CTRRGLSEVPQIPSNTRYLNLMENNIQMIQADTFHLLHLEVLQIGRNSIRQIEVGA	120

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181 LKLEYISEGAFGLNKLKYNLGMKNIKMPNLTPLVGLLELEMSGNHPPPIRGSEHG 240
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361 DLNISSEGMAELKRTPPMSVKNLIPNGTVLASHSRHPRISVLDGTLNFSHVLLSDTG 420
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IC ABUS8963;
YT 16-APR-2003 (first entry)
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CW Human; PRO; secreted; transmembrane; signal peptide;
CW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
CW colon cancer; lung cancer; breast cancer; cancer; gene therapy.
DS Homo sapiens.
CN US2002142961-A1.
PD 03-OCT-2002.
PF 19-NOV-2001; 2001US-0989721.
CX 05-NOV-1997; 97WO-US20069.
CX 17-SEP-1998; 98WO-US19437.
CX 07-OCT-1998; 98WO-US21141.
CX 01-DEC-1998; 98WO-US25108.
CX 05-JAN-1999; 99WO-US00106.
CX 08-MAR-1999; 99WO-US05028.
CX 02-JUN-1999; 99WO-US12252.
CX 15-SEP-1999; 99WO-US21090.
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CX 16-DEC-1999; 99WO-US30093.
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17-JUN-1998; 98US-089600P.  
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18-JUN-1998; 98US-089908P.  
28-AUG-2001; 2001US-0941992.  
(GETH ) GENENTECH INC.  
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Ferrara N, Fong S, Gerber H, Gerritsen WE, Goddard A, Godowski PJ;  
Grimaldi JC, Gurney AL, Kijavini IG, Napier MA, Pan J, Paoni NF;  
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
Zhang Z;  
WPI, 2003-155950/15.  
New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,  
PRO361 or PRO846) useful as targets for therapeutic intervention in  
cancers (e.g. lung or breast cancers), or for diagnosing these cancers  
-  
Claim 12; Fig 157; 647pp; English.  
The invention discloses isolated PRO secreted/transmembrane polypeptides  
comprising a sequence without signal peptide and the nucleic acid  
encoding them. The polypeptides can be used to raise antibodies that  
specifically bind to the PRO polypeptide, for linking a bioactive  
molecule to a cell expressing a PRO protein and for modulating at least  
one biological activity of a cell. The PRO polypeptides or  
polynucleotides are also useful as pharmaceuticals, diagnostics,  
bioreactors or bioreactors, for detecting or treating e.g. tumours in  
mammals, e.g. humans, dogs, cats, cattle, horses, sheep, goats or  
rabbits as targets for therapeutic intervention in certain cancers (e.g.  
colon, lung or breast cancers) and diagnostic determination of the  
presence of these cancers. The PRO polypeptides are also useful as  
molecular weight markers or for chromosome identification. The PRO genes  
are useful as hybridisation probes or for screening libraries of human  
cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene  
therapy, particularly for replacing a defective gene. The sequences  
presented in ABUS9900-ABUS9046 are the PRO polypeptides of the invention.  
Sequence 653 AA;  
Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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b 1 MKLLQVTVVHTHTWNAILLPFFVLTQVWILCAALAAASAGPQKPCSCSNQFSKV 60  
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b 61 CTRRGLSEVPQGPSNRYLNMENNIMQIADTPRHLLHLEVLQLRGNSRQIEVGAFN 120  
y 121 GLASNTLSEFNNLTVISGAFYLSKRLRLWLNPNPIESIPVAPNRPVSLMELDGE 180  
b 121 GLASNTLSEFNNLTVISGAFYLSKRLRLWLNPNPIESIPVAPNRPVSLMELDGE 180  
y 181 LKLEYISGAFEGLENLYLNMENIKMPNLTPLVGLEELMSGNHPFPIRPGSPHG 240  
b 181 LKLEYISGAFEGLENLYLNMENIKMPNLTPLVGLEELMSGNHPFPIRPGSPHG 240  
y 241 LSSLKLLWPNQSVSLIERNADFGLASLYELANNNLSLPHDLFTPLRYLVELLHHN 300  
b 241 LSSLKLLWPNQSVSLIERNADFGLASLYELANNNLSLPHDLFTPLRYLVELLHHN 300  
y 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPNHRGRLYLVVDQASFCQCAPPTMDAPR 360  
b 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPNHRGRLYLVVDQASFCQCAPPTMDAPR 360  
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Db 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRIVLNDGTLNFSHVLLSDTG 420  
Qy 421 VTCQVTVNAGSNASAYLVNUSYTAELNYSNYSPTTVTVETTEISPEDTTRKYPVPTTS 480  
Db 421 VTCQVTVNAGSNASAYLVNUSYTAELNYSNYSPTTVTVETTEISPEDTTRKYPVPTTS 480  
Qy 481 TGYQPAYTTSVTLVLIQTRVPRKQVAVPATDTTDMQTSLSDEVMKTKIILGCFVAVTLLA 540  
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XX AC ABU13923;  
XX DT 26-FEB-2003 (first entry)  
XX DE Human PRO1111 polypeptide.  
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;  
XX OS Homo sapiens.  
XX PN US2002103125-A1.  
XX PD 01-AUG-2002.  
XX PF 20-NOV-2001; 2001US-0989731.  
XX PR 05-NOV-1997; 97WO-US20069.  
PR 16-SEP-1998; 98WO-US19330.  
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PR 02-JUN-1999; 99WO-US12252.  
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PR 22-FEB-2000; 2000WO-US04414.  
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PR 02-JUN-2000; 2000WO-US14941.  
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R 28-JUL-2000; 2000MO-US20710.  
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R 05-JUN-1998; 98US-088212P.  
R 05-JUN-1998; 98US-088317P.  
R 09-JUN-1998; 98US-088655P.  
R 10-JUN-1998; 98US-088734P.  
R 10-JUN-1998; 98US-088738P.  
R 10-JUN-1998; 98US-088742P.  
R 10-JUN-1998; 98US-088810P.  
R 10-JUN-1998; 98US-088824P.  
R 10-JUN-1998; 98US-088826P.  
R 11-JUN-1998; 98US-088858P.  
R 11-JUN-1998; 98US-088861P.  
R 11-JUN-1998; 98US-088876P.  
R 12-JUN-1998; 98US-089105P.  
R 16-JUN-1998; 98US-089440P.  
R 16-JUN-1998; 98US-089512P.  
R 16-JUN-1998; 98US-089514P.  
R 17-JUN-1998; 98US-089532P.  
R 17-JUN-1998; 98US-089538P.  
R 17-JUN-1998; 98US-089598P.  
R 17-JUN-1998; 98US-089599P.  
R 17-JUN-1998; 98US-089600P.  
R 17-JUN-1998; 98US-089602P.  
R 17-JUN-1998; 98US-089653P.  
R 18-JUN-1998; 98US-089801P.  
R 18-JUN-1998; 98US-089807P.  
R 18-JUN-1998; 98US-089808P.  
R 28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH LTD.

Abkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,  
Perrara N, Fong S, Gerber H, Gerritsen WB, Goddard A, Godowski PJ,  
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF,  
Roy WA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
Zhang Z;

WPI; 2003-102117/09.  
N-PSDB; ABX64093.

PT Novel secreted and transmembrane polypeptide for modulating biological  
PT activity of cell expressing the polypeptide, identifying agonists or  
PT antagonists of polypeptide, and as molecular weight markers  
XX Claim 12; Fig 157; 649pp; English.  
XX The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The  
CC polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides are useful for detecting other PRO polypeptides, for  
CC linking bioactive molecules to cells expressing PRO polypeptides,  
CC for modulating biological activities of cells expressing PRO  
CC polypeptides, and for identifying agonists or antagonists.  
CC The polynucleotide sequences encoding PRO polypeptides are useful as  
CC hybridisation probes, in chromosome and gene mapping, in the generation  
CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for  
CC generating transgenic animals or knockout animals, to construct  
CC hybridisation probes for mapping the gene which encodes the PRO  
CC polypeptide, and for the genetic analysis of individuals with genetic  
CC disorders, in gene therapy, for chromosome identification, as  
CC chromosome markers, and for generating probes for PCR, Northern  
CC analysis, Southern analysis and Western analysis. ABU13860-ABU14006  
CC represent the human PRO polypeptides of the invention.  
CC Note: The sequence data for this patent was obtained in electronic  
CC format directly from the USPTO web site at  
CC seqdata.uspto.gov/psipdsidentry.html.  
XX Sequence 653 AA;

Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 M K L M Q V T V H H T W N A I L L P F V Y L T A Q W W I L C A A I A A A A A G P Q C P S V C S C N Q F S K V W 60  
DB 1 M K L M Q V T V H H T W N A I L L P F V Y L T A Q W W I L C A A I A A A A A G P Q C P S V C S C N Q F S K V W 60  
QY 61 C T R G L S E V P G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G N S T R Q I E V G A F N 120  
DB 61 C T R G L S E V P G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G N S T R Q I E V G A F N 120  
QY 121 G L A S L N T L E L F D N W L T V I P S G A P E Y L S K L R L W L N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
DB 121 G L A S L N T L E L F D N W L T V I P S G A P E Y L S K L R L W L N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
QY 181 L K L E Y I S E G A F E L F N L K Y L N I G M C N I K D M P N I T P L V G L E L E M S G N H F P E I R P G S P H G 240  
DB 181 L K L E Y I S E G A F E L F N L K Y L N I G M C N I K D M P N I T P L V G L E L E M S G N H F P E I R P G S P H G 240  
QY 241 L S S L K L W N N S Q V S L I E R N A F D G L A S L V E L N L A H N N I S S L P H D L F T P L Y L V E L H L H N 300  
DB 241 L S S L K L W N N S Q V S L I E R N A F D G L A S L V E L N L A H N N I S S L P H D L F T P L Y L V E L H L H N 300  
QY 301 P W N C D C D I L W A W L R E V I P T N S T C C G R C H A P M W R G R Y L V E V D O A S F Q C S A P P T M D A P R 360  
DB 301 P W N C D C D I L W A W L R E V I P T N S T C C G R C H A P M W R G R Y L V E V D O A S F Q C S A P P T M D A P R 360  
QY 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
DB 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
QY 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
DB 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
QY 481 T G V O P A Y T T S T T V L I O T T R V P K Q V A P A D T T D R K M Q T S L D E V M K T K I I I G C F V A V I L L A 540  
DB 481 T G V O P A Y T T S T T V L I O T T R V P K Q V A P A D T T D R K M Q T S L D E V M K T K I I I G C F V A V I L L A 540  
QY 541 A A M L I V F Y K L R K R H Q R S T V T A A R T V E I I Q V D E I P A A T S A A A T A A P S V G S G E G A V L P T 600  
DB 541 A A M L I V F Y K L R K R H Q R S T V T A A R T V E I I Q V D E I P A A T S A A A T A A P S V G S G E G A V L P T 600

601 IHDHINYTYKPAHGAHTWENSLNSLHPTVTITISEPVIIQHTKDKVQETQI 653  
|||||  
601 IHDHINYTYKPAHGAHTWENSLNSLHPTVTITISEPVIIQHTKDKVQETQI 653  
|||  
RESULT 16  
JUI0878  
ABU10878 standard; Protein; 653 AA.  
ABU10878;  
04-FEB-2003 (first entry)  
Human PRO polypeptide #64.  
Human; PRO; secreted polypeptide; transmembrane polypeptide;  
toxin; radiolabel; cell death; gene mapping; chromosome mapping;  
protein electrophoresis; Genetic disorder; immunosuppressive; Cytostatic;  
antibacterial.  
Homo sapiens.  
US2002123463-A1.  
05-SEP-2002.  
19-NOV-2001; 2001US-0989732.  
05-NOV-1997; 97WO-US200069.  
16-SEP-1998; 98WO-US191330.  
17-SEP-1998; 98WO-US19437.  
07-OCT-1998; 98WO-US21141.  
01-DEC-1998; 98WO-US21508.  
05-JAN-1999; 99WO-US00106.  
08-MAR-1999; 99WO-US05028.  
02-JUN-1999; 99WO-US12252.  
15-SEP-1999; 99WO-US21090.  
15-SEP-1999; 99WO-US21547.  
30-NOV-1999; 99WO-US28313.  
01-DEC-1999; 99WO-US28301.  
01-DEC-1999; 99WO-US28634.  
16-DEC-1999; 99WO-US30095.  
20-DEC-1999; 99WO-US30911.  
06-JAN-2000; 2000WO-US00219.  
08-JAN-2000; 2000WO-US00376.  
11-FEB-2000; 2000WO-US03565.  
18-FEB-2000; 2000WO-US04341.  
22-FEB-2000; 2000WO-US04414.  
24-FEB-2000; 2000WO-US04914.  
24-FEB-2000; 2000WO-US05004.  
02-MAR-2000; 2000WO-US05841.  
10-MAR-2000; 2000WO-US06319.  
15-MAR-2000; 2000WO-US06884.  
20-MAR-2000; 2000WO-US07377.  
30-MAR-2000; 2000WO-US08439.  
15-MAY-2000; 2000WO-US13358.  
17-MAY-2000; 2000WO-US13705.  
22-MAY-2000; 2000WO-US14042.  
30-MAY-2000; 2000WO-US14941.  
02-JUN-2000; 2000WO-US15264.  
28-JUL-2000; 2000WO-US20710.  
11-AUG-2000; 2000WO-US22031.  
23-AUG-2000; 2000WO-US23522.  
24-AUG-2000; 2000WO-US23328.  
08-NOV-2000; 2000WO-US30952.  
01-DEC-2000; 2000WO-US32878.  
28-FEB-2001; 2001WO-US06520.  
01-JUN-2001; 2001WO-US17800.  
20-JUN-2001; 2001WO-US19692.  
29-JUN-2001; 2001WO-US21066.  
09-JUL-2001; 2001WO-US21735.  
16-JUN-1997; 97US-049787P.  
17-OCT-1997; 97US-062250P.

PR 12-NOV-1997; 97US-065186P.  
PR 13-NOV-1997; 97US-065311P.  
PR 24-NOV-1997; 97US-066770P.  
PR 25-FEB-1998; 98US-075945P.  
PR 20-MAR-1998; 98US-078910P.  
PR 28-APR-1998; 98US-083322P.  
PR 07-MAY-1998; 98US-084600P.  
PR 28-MAY-1998; 98US-087106P.  
PR 02-JUN-1998; 98US-087609P.  
PR 02-JUN-1998; 98US-087759P.  
PR 03-JUN-1998; 98US-087827P.  
PR 04-JUN-1998; 98US-088021P.  
PR 04-JUN-1998; 98US-088025P.  
PR 04-JUN-1998; 98US-088028P.  
PR 04-JUN-1998; 98US-088029P.  
PR 04-JUN-1998; 98US-088030P.  
PR 04-JUN-1998; 98US-088033P.  
PR 04-JUN-1998; 98US-088326P.  
PR 05-JUN-1998; 98US-088167P.  
PR 05-JUN-1998; 98US-088202P.  
PR 05-JUN-1998; 98US-088212P.  
PR 05-JUN-1998; 98US-088217P.  
PR 09-JUN-1998; 98US-088655P.  
PR 10-JUN-1998; 98US-088734P.  
PR 10-JUN-1998; 98US-088738P.  
PR 10-JUN-1998; 98US-088742P.  
PR 10-JUN-1998; 98US-088810P.  
PR 10-JUN-1998; 98US-088824P.  
PR 10-JUN-1998; 98US-088826P.  
PR 11-JUN-1998; 98US-088858P.  
PR 11-JUN-1998; 98US-088861P.  
PR 11-JUN-1998; 98US-088876P.  
PR 12-JUN-1998; 98US-089105P.  
PR 16-JUN-1998; 98US-089440P.  
PR 16-JUN-1998; 98US-089512P.  
PR 16-JUN-1998; 98US-089514P.  
PR 17-JUN-1998; 98US-089532P.  
PR 17-JUN-1998; 98US-089538P.  
PR 17-JUN-1998; 98US-089598P.  
PR 17-JUN-1998; 98US-089599P.  
PR 17-JUN-1998; 98US-089600P.  
PR 17-JUN-1998; 98US-089653P.  
PR 18-JUN-1998; 98US-089801P.  
PR 18-JUN-1998; 98US-089907P.  
PR 18-JUN-1998; 98US-089908P.  
PR 28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Ferrara N, Fong S, Gerber H, Geritsen ME, Goddard A, Godowski PJ;  
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
Zhang Z;

WPI, 2003-066810/06.  
N-PSDE; ABX17057.

Novel secreted and transmembrane polypeptide for modulating biological  
activity of cell expressing the polypeptide, identifying agonists or  
antagonists of polypeptide, and as molecular weight markers

Claim 12; Fig 157; 655pp; English.

The invention relates to a secreted and transmembrane polypeptide, termed  
PRO polypeptide, and the polynucleotide encoding it. The polypeptide is  
useful for detecting PRO polypeptides and for linking a bioactive  
molecule to a cell expressing the above polypeptides, where the bioactive  
molecule is a toxin, radiolabel or an antibody. The bioactive material  
causes the death of the cell. The polypeptide is useful for identifying  
agonists or antagonists of the PRO polypeptide, for preparing variants of





R 14-SEP-2000; 2000US-0233063.  
R 14-SEP-2000; 2000US-0233064.  
R 14-SEP-2000; 2000US-0233065.  
R 21-SEP-2000; 2000US-0234223.  
R 21-SEP-2000; 2000US-0234274.  
R 25-SEP-2000; 2000US-0234997.  
R 25-SEP-2000; 2000US-0234998.  
R 26-SEP-2000; 2000US-0235484.  
R 27-SEP-2000; 2000US-0235834.  
R 27-SEP-2000; 2000US-0235836.  
R 29-SEP-2000; 2000US-0236327.  
R 29-SEP-2000; 2000US-0236367.  
R 29-SEP-2000; 2000US-0236368.  
R 29-SEP-2000; 2000US-0236369.  
R 29-SEP-2000; 2000US-0236370.  
R 02-OCT-2000; 2000US-0236802.  
R 02-OCT-2000; 2000US-0237037.  
R 02-OCT-2000; 2000US-0237038.  
R 02-OCT-2000; 2000US-0237039.  
R 02-OCT-2000; 2000US-0237040.  
R 13-OCT-2000; 2000US-0239335.  
R 13-OCT-2000; 2000US-0239337.  
R 20-OCT-2000; 2000US-0240960.  
R 20-OCT-2000; 2000US-0241221.  
R 20-OCT-2000; 2000US-0241785.  
R 20-OCT-2000; 2000US-0241786.  
R 20-OCT-2000; 2000US-0241787.  
R 20-OCT-2000; 2000US-0241809.  
R 20-OCT-2000; 2000US-0241826.  
R 01-NOV-2000; 2000US-0244617.  
R 08-NOV-2000; 2000US-0246474.  
R 08-NOV-2000; 2000US-0246475.  
R 08-NOV-2000; 2000US-0246476.  
R 08-NOV-2000; 2000US-0246477.  
R 08-NOV-2000; 2000US-0246478.  
R 08-NOV-2000; 2000US-0246523.  
R 08-NOV-2000; 2000US-0246524.  
R 08-NOV-2000; 2000US-0246525.  
R 08-NOV-2000; 2000US-0246526.  
R 08-NOV-2000; 2000US-0246527.  
R 08-NOV-2000; 2000US-0246528.  
R 08-NOV-2000; 2000US-0246532.  
R 08-NOV-2000; 2000US-0246609.  
R 08-NOV-2000; 2000US-0246610.  
R 08-NOV-2000; 2000US-0246611.  
R 08-NOV-2000; 2000US-0246613.  
R 17-NOV-2000; 2000US-0249207.  
R 17-NOV-2000; 2000US-0249208.  
R 17-NOV-2000; 2000US-0249209.  
R 17-NOV-2000; 2000US-0249210.  
R 17-NOV-2000; 2000US-0249211.  
R 17-NOV-2000; 2000US-0249212.  
R 17-NOV-2000; 2000US-0249213.  
R 17-NOV-2000; 2000US-0249214.  
R 17-NOV-2000; 2000US-0249215.  
R 17-NOV-2000; 2000US-0249216.  
R 17-NOV-2000; 2000US-0249217.  
R 17-NOV-2000; 2000US-0249218.  
R 17-NOV-2000; 2000US-0249244.  
R 17-NOV-2000; 2000US-0249245.  
R 17-NOV-2000; 2000US-0249246.  
R 17-NOV-2000; 2000US-0249247.  
R 17-NOV-2000; 2000US-0249255.  
R 17-NOV-2000; 2000US-0249297.  
R 17-NOV-2000; 2000US-0249299.  
R 17-NOV-2000; 2000US-0249300.  
R 01-DEC-2000; 2000US-0250160.  
R 01-DEC-2000; 2000US-0250391.  
R 05-DEC-2000; 2000US-0251030.  
R 05-DEC-2000; 2000US-0251988.  
R 06-DEC-2000; 2000US-0256719.  
R 06-DEC-2000; 2000US-0251479.  
R 08-DEC-2000; 2000US-0251856.

PR 08-DEC-2000; 2000US-0251868.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-457725/49.  
XX N-PSDB; AAS28823.

Isolated novel immunoglobulin polypeptide for monitoring the presence and progression of diseases and for diagnosis -

Claim 11; SEQ ID No 180; 551pp; English.

Sequences AAU17977-AAU18087 represent immunoglobulin polypeptides of the invention. The polypeptides and their associated polynucleotides can be used to diagnose a pathological condition or a susceptibility to a pathological condition in a subject by determining the presence or absence of a mutation in a DNA sequence or determining the presence or amount of expression of the protein. Alternatively the identification of a binding partner to a sequence allows determination of changes in protein activity. The sequences can be used as research tools for receptors or other signal transduction pathway proteins that interact with the polypeptides of the invention and can be used to treat, prevent or diagnose various types of disorders such as neurological disorders, cardiovascular disorders, gastrointestinal disorders, reproductive disorders, immune system disorders, renal disorders, muscular disorders, pulmonary disorders, proliferative disorders and cancer.  
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 606 AA;

Query Match 92.8%; Score 606; DB 22; Length 606;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 606; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 48 SVCSNQFQKVVCTRGGLSEVPGQIPSNTRYLNAMNNIOMIQADTFRHLHLEVLQLG 107  
DB 1 SVCSNQFQKVVCTRGGLSEVPGQIPSNTRYLNAMNNIOMIQADTFRHLHLEVLQLG 60  
QY 108 RNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFEYLSKRELMLRNNPIESIPSYAF 167  
DB 61 RNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFEYLSKRELMLRNNPIESIPSYAF 120  
QY 168 NRVPISMRDLGELKLEYISEGAFGLFNLKYLNGMCNIXDMPNLTPLVGLLEEMSG 227  
DB 121 NRVPISMRDLGELKLEYISEGAFGLFNLKYLNGMCNIXDMPNLTPLVGLLEEMSG 180  
QY 228 NHFPEIRPGSPHGLSSLSKLLWVNSQVSLIERNAFGLASLVELNLAHNLSLPHDLFT 287  
DB 181 NHFPEIRPGSPHGLSSLSKLLWVNSQVSLIERNAFGLASLVELNLAHNLSLPHDLFT 240  
QY 288 PLRYLVELHLHHPNWCDCDILMLAWMLREYIPTNPTCCGRCCHAPMHRGRYLVVDQAS 347  
DB 241 PLRYLVELHLHHPNWCDCDILMLAWMLREYIPTNPTCCGRCCHAPMHRGRYLVVDQAS 300  
QY 348 FQCSAPFIMDAPDLNISEGRMAELKCRTPMSSVKWLLPNGTVLSHSHRPRISVLNDG 407  
DB 301 FQCSAPFIMDAPDLNISEGRMAELKCRTPMSSVKWLLPNGTVLSHSHRPRISVLNDG 360  
QY 408 TLNFSHVLLSDTGYITCMTNVNAGNSNAYLNVSTAEALNTSNYSPTTIVTTETTSISPE 467  
DB 361 TLNFSHVLLSDTGYITCMTNVNAGNSNAYLNVSTAEALNTSNYSPTTIVTTETTSISPE 420  
QY 468 DTRKYKVPVTTSTGYQPATTTSTTVLIQTTRPKQVAVPATTTTDMQOTSLSEVAKTK 527





XX WP1: 2001-476161/51.  
DR N-PSDB; ABA06571.  
XX  
PT Isolated nucleic acid molecule encoding an inflammation-associated  
PT polypeptide is used in preventing, treating or ameliorating a medical  
PT condition -  
XX  
XX Claim 11; SEQ ID NO: 657; 859pp + Sequence Listing; English.  
XX  
XX The present invention provides human cDNAs, proteins and related genomic  
XX DNAs. These can be used in the treatment of neural, immune system,  
XX muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,  
XX renal and proliferative disorders and inflammation. The present sequence  
XX is a protein of the invention.  
XX  
XX Sequence 553 AA;  
XX  
Query Match 69.2%; Score 452; DB 22; Length 553;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 552; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 101 LEVLQGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSKLRELWLNPNIE 160  
Db 1 LEVLQGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSKLRELWLNPNIE 60  
QY 161 SPSYAFNRVPSLMDLDELKLEIYISGAFEGFLNKLNLGNCKLKNPNITPLVGL 220  
Db 61 SPSYAFNRVPSLMDLDELKLEIYISGAFEGFLNKLNLGNCKLKNPNITPLVGL 120  
QY 221 EELENSGNHFPPIRPGSHGLSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNLS 280  
Db 121 EELENSGNHFPPIRPGSHGLSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNLS 180  
QY 281 LPHDLFTPLRYLVELHLHNPWNCDDILWLAWLREYIPNNSCCGCHAPMEMRGYL 340  
Db 181 LPHDLFTPLRYLVELHLHNPWNCDDILWLAWLREYIPNNSCCGCHAPMEMRGYL 240  
QY 341 VEVDQASFOCSAPFINDAPRDNLISGEMAEKCRTPMSSVQWLLPNTGTVLSHRSRPR 400  
Db 241 VEVDQASFOCSAPFINDAPRDNLISGEMAEKCRTPMSSVQWLLPNTGTVLSHRSRPR 300  
QY 401 ISVNDGTLNPHGLVSDTGVTCMVTNAGNSNAYLNSTAEINTSNYSFPTTVTVE 460  
Db 301 ISVNDGTLNPHGLVSDTGVTCMVTNAGNSNAYLNSTAEINTSNYSFPTTVTVE 360  
QY 461 TTEISPDITRKYPVPTTSTGQPAYTSTTVLIQTRVPKQAVPATDTTKMQTSLD 520  
Db 361 TTEISPDITRKYPVPTTSTGQPAYTSTTVLIQTRVPKQAVPATDTTKMQTSLD 420  
QY 521 EVMKTKIIIGCFVAVTLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDPAATS 580  
Db 421 EVMKTKIIIGCFVAVTLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDPAATS 480  
QY 581 AAATAPSGVSGGAVVLETIHDHINYNITKPAHGAHWTENSLGNSLHPTVTITSEPVII 640  
Db 481 AAATAPSGVSGGAVVLETIHDHINYNITKPAHGAHWTENSLGNSLHPTVTITSEPVII 540  
QY 641 QTHTKDKVQETQI 653  
Db 541 QTHTKDKVQETQI 553  
RESULT 20  
ABP66936  
ID ABP66936 standard; Protein; 553 AA.  
XX  
AC ABP66936;  
XX  
DT 09-DEC-2002 (first entry)  
XX  
DE Human polypeptide SEQ ID NO 657.  
XX

XX Human; neutropic; neuroprotective; cytostatic; dermatological; virucide;  
XX immunosuppressive; anti-inflammatory; anti-HIV; antibacterial; vulnerary;  
XX antiparkinsonian; antitickling; antianemic; antiarthritic; cancer;  
XX antirheumatic; hepatotropic; cerebroprotective; antinflammatory;  
XX antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;  
XX antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
XX neurological disease; infection; nephrotropic; gene therapy; vaccine.  
XX  
OS Homo sapiens.  
XX  
XX US2002090672-A1.  
XX  
XX 11-JUL-2002.  
XX  
XX 17-JAN-2001; 2001US-0764853.  
XX  
XX 31-JAN-2000; 2000US-179065P.  
XX 04-FEB-2000; 2000US-180628P.  
XX 28-JUN-2000; 2000US-214886P.  
XX 07-JUL-2000; 2000US-216647P.  
XX 07-JUL-2000; 2000US-216880P.  
XX 11-JUL-2000; 2000US-217487P.  
XX 11-JUL-2000; 2000US-217496P.  
XX 14-JUL-2000; 2000US-218290P.  
XX 26-JUL-2000; 2000US-220963P.  
XX 26-JUL-2000; 2000US-220964P.  
XX 14-AUG-2000; 2000US-224518P.  
XX 14-AUG-2000; 2000US-224519P.  
XX 14-AUG-2000; 2000US-225267P.  
XX 14-AUG-2000; 2000US-225268P.  
XX 14-AUG-2000; 2000US-225270P.  
XX 14-AUG-2000; 2000US-225447P.  
XX 14-AUG-2000; 2000US-225757P.  
XX 14-AUG-2000; 2000US-225758P.  
XX 22-AUG-2000; 2000US-226686P.  
XX 30-AUG-2000; 2000US-228924P.  
XX 01-SEP-2000; 2000US-229287P.  
XX 01-SEP-2000; 2000US-229143P.  
XX 01-SEP-2000; 2000US-229344P.  
XX 01-SEP-2000; 2000US-229345P.  
XX 05-SEP-2000; 2000US-229509P.  
XX 05-SEP-2000; 2000US-229513P.  
XX 08-SEP-2000; 2000US-231413P.  
XX 21-SEP-2000; 2000US-234223P.  
XX 21-SEP-2000; 2000US-234274P.  
XX 25-SEP-2000; 2000US-234997P.  
XX 27-SEP-2000; 2000US-235834P.  
XX 29-SEP-2000; 2000US-236327P.  
XX 29-SEP-2000; 2000US-236367P.  
XX 29-SEP-2000; 2000US-236368P.  
XX 29-SEP-2000; 2000US-236369P.  
XX 29-SEP-2000; 2000US-236370P.  
XX 02-OCT-2000; 2000US-236802P.  
XX 02-OCT-2000; 2000US-237037P.  
XX 02-OCT-2000; 2000US-237038P.  
XX 02-OCT-2000; 2000US-237039P.  
XX 02-OCT-2000; 2000US-237040P.  
XX 13-OCT-2000; 2000US-239935P.  
XX 20-OCT-2000; 2000US-240960P.  
XX 20-OCT-2000; 2000US-241785P.  
XX 20-OCT-2000; 2000US-241809P.  
XX 01-NOV-2000; 2000US-244617P.  
XX 17-NOV-2000; 2000US-249299P.  
XX 08-DEC-2000; 2000US-251856P.  
XX 08-DEC-2000; 2000US-251868P.  
XX 08-DEC-2000; 2000US-251869P.  
XX  
XX (ROSE/) ROSEN C A.  
XX (RUBE/) RUBEN S M.  
XX (BARA/) BARASH S C.  
XX  
XX Rosen CA, Ruben SM, Barash SC;

DR WPI; 2002-68127/73.  
DR N-PSDB; ABV83908.  
X Novel polypeptide useful for diagnosis, prognosis, prevention, and  
T treatment of immune, hyperproliferative, renal, respiratory,  
T cardiovascular, reproductive, endocrine, gastrointestinal and  
T neurological disorders  
X S  
X Claim 11; SEQ ID NO 657; 369pp + Sequence Listing; English.  
X  
X The invention relates to novel genes (ABV83682-ABV84101) and proteins  
C (ABP66710-ABP67129) useful for preventing, treating or ameliorating  
C medical conditions e.g. by protein or gene therapy. The genes are  
C isolated from a range of human tissues disclosed in the specification.  
C The nucleic acids, proteins, antibodies and (ant)agonists are useful  
C in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
C and ovarian cancer and other cancers of the adrenal gland, bone, bone  
C marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
C (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
C haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
C disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
C colitis; (c) cardiovascular disorders such as myocardial ischaemias;  
C (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
C epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
C and parasitic infections.  
C Note: The sequence data for this patent did not form part of the  
C printed specification, but was obtained in electronic format directly  
C from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
X Q Sequence 553 AA;  
  
Query Match 59.2%; Score 452; DB 23; Length 553;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 552; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Y 101 LEVLQGRNSIRIQEVGAFNGLASLNTLEFDNLWTVIPSGAFYVLSKRLRLWLNRPPIE 160  
b 1 LEVLQGRNSIRIQEVGAFNGLASLNTLEFDNLWTVIPSGAFYVLSKRLRLWLNRPPIE 60  
  
Y 161 SIFSYAFNVPVSLMRDLDELKLEIYISGAFEGFLNKLKYLNLGMCNKDMPNLPVLGL 220  
b 61 SIFSYAFNVPVSLMRDLDELKLEIYISGAFEGFLNKLKYLNLGMCNKDMPNLPVLGL 120  
  
Y 221 SELEMSGNHFFETPCSGFGLSSKGLWVNSQVSLIERNAFDGLASIVELNLAHNNLSS 280  
b 121 SELEMSGNHFFETPCSGFGLSSKGLWVNSQVSLIERNAFDGLASIVELNLAHNNLSS 180  
  
Y 281 LPDLFTPLRLYLVELHLHNPWNCDDILWLAWLREYIPTNSTCCGRCHAPMHRGRL 340  
b 181 LPDLFTPLRLYLVELHLHNPWNCDDILWLAWLREYIPTNSTCCGRCHAPMHRGRL 240  
  
Y 341 VEYDQASFOCSAPPINDAPRDNIISGRMAELKCRTPPMSSVKVLLPNGTVLSHSRHPR 400  
b 241 VEYDQASFOCSAPPINDAPRDNIISGRMAELKCRTPPMSSVKVLLPNGTVLSHSRHPR 300  
  
Y 401 ISVINDGTLNFSHLLSDTGVTCTWVTVNAGNSASAVLVNSTAINTSNYSFFTTTVE 460  
b 301 ISVINDGTLNFSHLLSDTGVTCTWVTVNAGNSASAVLVNSTAINTSNYSFFTTTVE 360  
  
Y 461 TTEISPEDTRKPKVPTTSTGQPAYTSTTVLIQTRVPQVAVPATDITDDKQTSLD 520  
b 361 TTEISPEDTRKPKVPTTSTGQPAYTSTTVLIQTRVPQVAVPATDITDDKQTSLD 420  
  
Y 521 EVNKTTLKIIIGCFVATLLAAAMLIVFYKLRKHORSTVTARTVLIQVDEDIPAAITS 580  
b 421 EVNKTTLKIIIGCFVATLLAAAMLIVFYKLRKHORSTVTARTVLIQVDEDIPAAITS 480  
  
Y 581 AATAAPSGVSGEAVLPTIHCHINNTYKPAKGAHWTENSIGNSLHPTVTITSEPYII 640  
b 481 AATAAPSGVSGEAVLPTIHCHINNTYKPAKGAHWTENSIGNSLHPTVTITSEPYII 540  
  
Y 641 QTHYKDKVQETQI 653  
|||||

Db 541 QTHYKDKVQETQI 553

RESULT 21  
AAB23044  
ID AAB23044 standard; Protein; 448 AA.  
XX  
XX AAB23044;  
XX  
XX 16-JAN-2001 (first entry)  
XX Human SLIT protein-like splice variant, SECX 3352358-S153A.  
XX  
XX SECX protein; human; secreted; membrane-associated; cancer;  
XX proliferation regulator; differentiation regulator; non-malignant tumour;  
XX immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
XX infection; inflammatory disorder; arthritis; haematopoietic disorder;  
XX skin disorder; cardiovascular disorder; atherosclerosis; restenosis;  
XX neurological disease; Alzheimer's disease; trauma; wounding;  
XX spinal cord injury; skeletal disorder; cytostatic; immunosuppressive;  
XX anti-HIV; antiinflammatory; antiarthritic; antiarteriosclerotic;  
XX neuroprotective; vulnary; antiallergic; antimicrobial; cardiac;  
XX dermatological; gene therapy.  
OS Homo sapiens.  
XX WO2000053742-A2.  
XX  
XX 14-SEP-2000.  
XX  
XX 09-MAR-2000; 2000WO-US06280.  
XX  
XX 09-MAR-1999; 99US-0123667.  
XX 08-MAR-2000; 2000US-0123667.  
XX (CURA-) CURAGEN CORP.  
XX  
XX Shimkets RA;  
XX  
XX WPI; 2000-594318/56.  
XX N-PSDB; AAA93631.  
XX  
XX Novel human membrane associated or secreted polypeptides and  
XX polynucleotides useful for diagnosis, prevention and treatment of  
XX pathological states such as cancer, immune, cardiovascular and  
XX neurological disorders  
XX  
XX Claim 1; Fig 17B; 151pp; English.  
XX  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
XX proteins of the invention are either secreted or membrane-associated  
XX and act as regulator of cellular proliferation and  
XX differentiation. SECX proteins or nucleotides are useful for diagnosing  
XX the presence of, or predisposition to, a disease associated with altered  
XX levels of SECX proteins and nucleotides. The SECX proteins are also  
XX useful to screen compounds that modulate SECX activity or expression. The  
XX interaction of a SECX protein with other cellular proteins may be useful  
XX to modulate the activity of a partner protein, cellular proliferation,  
XX cellular differentiation and cell survival. SECX nucleotides are useful  
XX for the recombinant expression of SECX protein, and may also be used to  
XX SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
XX modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
XX nucleic acid sequences are also useful for identifying a cell or tissue  
XX type in a biological sample, and in forensic biology. SECX primers or  
XX probes are useful for detecting the presence of SECX nucleotides and for  
XX screening tissue cultures for contamination. Diseases that may be treated  
XX or prevented using SECX proteins or nucleotides include cancer (e.g.,  
XX colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
XX (including autoimmune diseases, transplant rejection, allergies, AIDS),  
XX infections, inflammatory disorders, arthritis, haematopoietic disorders,  
XX skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
XX neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
XX surgical or traumatic wounds, spinal cord injury), and skeletal

CC disorders.  
 XX SQ Sequence 448 AA;  
 Query Match 68.6%; Score 448; DB 21; Length 448;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 448; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 NCPVSCSNQFQKVCVTRGLSEVQGIQPSNTRYLNLMNENIOMIQADTFPHLHLEVL 104  
 DB 1 NCPVSCSNQFQKVCVTRGLSEVQGIQPSNTRYLNLMNENIOMIQADTFPHLHLEVL 60

QY 105 QLGENSIQIETVGAFAFNGLASINTLELFDNWLTVIPSGAPEYLSKRELWLRNNPIESIPS 164  
 DB 61 QLGENSIQIETVGAFAFNGLASINTLELFDNWLTVIPSGAPEYLSKRELWLRNNPIESIPS 120

QY 165 YAFNRVPSLMDLGLSKLEIYISGAFGLFNLKYLNLGMNKNIDMNPNTPLVGLSELE 224  
 DB 121 YAFNRVPSLMDLGLSKLEIYISGAFGLFNLKYLNLGMNKNIDMNPNTPLVGLSELE 180

QY 225 MSGNHFFPEIRPGSFHGLSSLLKLVWMSQVSLIERNAPDGLASLVELNLAENNLSSLPHD 284  
 DB 181 MSGNHFFPEIRPGSFHGLSSLLKLVWMSQVSLIERNAPDGLASLVELNLAENNLSSLPHD 240

QY 285 LFTPLRYLVELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVED 344  
 DB 241 LFTPLRYLVELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVED 300

QY 345 QASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPRISVL 404  
 DB 301 QASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPRISVL 360

QY 405 NDTLNFHVLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFFTVIVETEI 464  
 DB 361 NDTLNFHVLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFFTVIVETEI 420

QY 465 SPEDTRKYKPVPTTSTGQRAYTTSIT 492  
 DB 421 SPEDTRKYKPVPTTSTGQRAYTTSIT 448

RESULT 22  
 AAB43091  
 ID AAB43091 standard; Protein; 441 AA.  
 XX AC AAB43091;  
 XX DT 08-FEB-2001 (first entry)  
 XX DE Human ORF2855 polypeptide sequence SEQ ID NO:5710.  
 KW Human; open reading frame; ORF; detection; cytostatic; hepatotropic;  
 KW vulnery; antipariatic; antiparkinsonian; neurotropic; neuroprotective;  
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiac;  
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;  
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;  
 KW antiviral; antibacterial; antifungal; antineumatic; antihypertensive;  
 KW antianemic; gene therapy; cancer; proliferative disorder; hypertension;  
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KW cholesterol ester storage; systemic lupus erythematosus; infection;  
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;  
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;  
 KW thrombosis; contraceptive.  
 CS Homo sapiens.  
 XX WO200058473-A2.  
 XX 05-OCT-2000.  
 XX 31-MAR-2000; 2000WO-US08621.

XX 31-MAR-1999; 99US-0127607.  
 PR 02-APR-1999; 99US-0127636.  
 PR 05-APR-1999; 99US-0127728.  
 XX 30-MAR-2000; 2000US-0540763.  
 PA (CURA-) CURAGEN CORP.  
 XX Shimkets RA, Leach M;  
 PI WPI; 2000-602362/57.  
 DR N-PSDB; AAC77300.  
 DR Novel nucleic acids and peptides derived from open reading frame X,  
 PT useful for treating e.g. cancers, proliferative disorders,  
 PT neurodegenerative disorders and cardiovascular disease -  
 PS Claim 11; Page 4877-4878; 5507pp; English.  
 CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,  
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX  
 CC sequences have activities such as: cytostatic; hepatotropic; vulnery;  
 CC antipariatic; antiparkinsonian; neurotropic; neuroprotective;  
 CC osteopathic; anticonvulsant; antiarthritic; immunosuppressant;  
 CC immunostimulant; cardiac; thrombolytic; coagulant; vasotropic;  
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;  
 CC antiinflammatory; antibacterial; antifungal; antineumatic;  
 CC antihypertensive; antianemic. The sequences can be used for determining  
 CC the presence of or predisposition to, or preventing or treating  
 CC pathological conditions associated with an ORFX-associated disorder. The  
 CC nucleic acids can be used to express ORFX proteins in gene therapy  
 CC vectors. The proteins and nucleic acids may be used to treat cancers,  
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,  
 CC graft vs host disease, cardiovascular disease, diabetes mellitus, lupus  
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,  
 CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,  
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,  
 CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance  
 CC coagulation; to inhibit thrombosis; and as a contraceptive.  
 XX SQ Sequence 441 AA;  
 Query Match 66.3%; Score 433; DB 21; Length 441;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 433; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 BELEMSGNHFFPEIRPGSFHGLSSLLKLVWMSQVSLIERNAPDGLASLVELNLAENNLSS 280  
 DB 9 BELEMSGNHFFPEIRPGSFHGLSSLLKLVWMSQVSLIERNAPDGLASLVELNLAENNLSS 68

QY 281 LPHDLFTPLRYLVELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYL 340  
 DB 69 LPHDLFTPLRYLVELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYL 128

QY 341 VEVDQASQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPR 400  
 DB 129 VEVDQASQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHARHPR 188

QY 401 ISVLNDGTINFSHVLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFFTVIVETI 460  
 DB 189 ISVLNDGTINFSHVLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFFTVIVETI 248

QY 461 TTEISPEPTTRKYKPVPTTSTGQRAYTTSIT 520  
 DB 249 TTEISPEPTTRKYKPVPTTSTGQRAYTTSIT 308

QY 521 EVMKTKIIIGCFVAVTLLAAALIVFYKLKRKHQRSTVTAARTVEIIQVDEIDIPARTS 580  
 DB 309 EVMKTKIIIGCFVAVTLLAAALIVFYKLKRKHQRSTVTAARTVEIIQVDEIDIPARTS 368

QY 581 AAATAAPSGVSGEAVVLPHTIHDHINTYKPAHGAHTENSIGNSLHPTVTITISEPYII 640



b 369 AAATAAPSGVSGGAVLPTIHDHINNTYKPAHGAHTWNSLGNLHPTVTITSEPVII 428  
 Y 641 QTHKDKVQSTQI 653  
 b 429 QTHKDKVQSTQI 441  
 RESULT 23  
 BG98014  
 D ABG98014 standard; Protein; 649 AA.  
 X X ABG98014;  
 X 07-JAN-2003 (first entry)  
 X Human leucine rich repeat domain protein associated protein #1.  
 X Leucine rich repeat; nervous system; human; neural disorder; apoptosis;  
 X renal disorder; immune disorder; arthritis; asthma; AIDS;  
 X acquired immunodeficiency syndrome; rheumatoid arthritis;  
 X haematopoietic disorder; metabolic disease; hyperproliferative disorder;  
 X pulmonary disease; cardiovascular disease; hyperproliferative disorder;  
 X neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 X Huntington's disease; developmental disorder; autoimmune disease;  
 X Addison's disease; haemolytic anaemia; antiphospholipid syndrome;  
 X allergic encephalomyelitis; gene therapy.  
 X  
 X Homo sapiens.  
 X WO200274959-A2.  
 X 26-SEP-2002.  
 X 20-DEC-2001; 2001WO-US50457.  
 X 03-JAN-2001; 2001US-259479P.  
 X 09-JAN-2001; 2001US-260616P.  
 X (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 X Ramanathan C, Feder J, Mintier G;  
 X WPI; 2002-750554/81.  
 X New HLRNS1 nucleic acids and polypeptides, useful for preventing,  
 X treating, or ameliorating e.g. renal disorder, immune, hematopoietic,  
 X metabolic, reproductive, pulmonary, cardiovascular or autoimmune  
 X diseases -  
 X Example 5; Page 412-415; 415pp; English.  
 X The invention describes nucleic acids encoding human leucine-rich repeat  
 X containing proteins expressed in nervous system tissues, HLRNS1. The  
 X HLRNS1 polypeptide or the polynucleotide is useful for preventing,  
 X treating, or ameliorating a neural disorder or a disorder related to  
 X aberrant apoptosis modulation (either directly or indirectly), renal  
 X disorder, immune disorder (e.g. arthritis, asthma, acquired  
 X immunodeficiency syndrome (AIDS) or rheumatoid arthritis),  
 X haematopoietic, metabolic, reproductive, pulmonary or cardiovascular  
 X diseases, hyperproliferative disorders, neurodegenerative diseases  
 X (e.g. Alzheimer's disease, Parkinson's disease or Huntington's  
 X disease), developmental disorders, non-infections disorders, nervous  
 X system diseases and/or disorders, and autoimmune diseases (e.g.  
 X Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or  
 X allergic encephalomyelitis). The polynucleotides are also useful as  
 X chromosome markers, for chromosome identification, gene therapy, and in  
 X identifying organisms from minute biological samples. This is the amino  
 X acid sequence of a peptide associated with the leucine-rich repeat  
 X containing nervous system protein of the invention.  
 X Sequence 649 AA;

Query Match 60.6%; Score 396; DB 23; Length 649;

Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 258 ERNAFDGLASIVELNLAHNNLSLPHDLPTPLRYLVELLHHPNWCDCDILWLAWLRE 317  
 DB 254 ERNAFDGLASIVELNLAHNNLSLPHDLPTPLRYLVELLHHPNWCDCDILWLAWLRE 313  
 QY 318 YIFPNSTCCGRCHAPMEMRGYLYVEVDQASFOCSAPFIMDAPRDLNISEGRMAELKCRTP 377  
 DB 314 YIFPNSTCCGRCHAPMEMRGYLYVEVDQASFOCSAPFIMDAPRDLNISEGRMAELKCRTP 373  
 QY 378 PMSSVKWLLPNGTIVLSHSPRISVLNDGTINFSVLLSDTGVTTCMTNVAGNSASA 437  
 DB 374 PMSSVKWLLPNGTIVLSHSPRISVLNDGTINFSVLLSDTGVTTCMTNVAGNSASA 433  
 QY 438 YLNVSTAEALNTSNYSPTTIVTETTSISPEITRKYKVPPTTSTGYOPAYTTSTTVLIQT 497  
 DB 434 YLNVSTAEALNTSNYSPTTIVTETTSISPEITRKYKVPPTTSTGYOPAYTTSTTVLIQT 493  
 QY 498 TRVPKQAVPATDTTDMQTSLEVMKTKIIGCFVAVTLLAAAMLIVFYKLRKHQR 557  
 DB 494 TRVPKQAVPATDTTDMQTSLEVMKTKIIGCFVAVTLLAAAMLIVFYKLRKHQR 553  
 QY 558 STVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVLPTIHDHINNTYKPAHGAH 617  
 DB 554 STVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVLPTIHDHINNTYKPAHGAH 613  
 QY 618 WTENSLGNLHPTVTITSEPIYIIQTHKDKVQSTQI 653  
 DB 614 WTENSLGNLHPTVTITSEPIYIIQTHKDKVQSTQI 649  
 RESULT 24  
 AAB23034  
 ID AAB23034 standard; Protein; 590 AA.  
 XX AC AAB23034;  
 XX DT 16-JAN-2001 (first entry)  
 XX DE Human SLIT protein-like splice variant, SBCX 3352358-2.  
 KW SBCX protein; human; secreted; membrane-associated; cancer;  
 KW proliferation regulator; differentiation regulator; non-malignant tumour;  
 KW immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
 KW infection; inflammatory disorder; arthritis; haematopoietic disorder;  
 KW skin disorder; cardiovascular disorder; atherosclerosis; restenosis;  
 KW neurological disease; Alzheimer's disease; trauma; wounding;  
 KW spinal cord injury; skeletal disorder; cystostatic; immunosuppressive;  
 KW anti-HIV; anti-inflammatory; antiarthritic; antiarteriosclerotic;  
 KW neuroprotective; vulnary; antiallergic; antimicrobial; cardiant;  
 KW dermatological; gene therapy.  
 XX Homo sapiens.  
 OS WO200053742-A2.  
 PN 14-SEP-2000.  
 PD 09-MAR-2000; 2000WO-US06280.  
 PF 09-MAR-1999; 99US-0123667.  
 PR 08-MAR-2000; 2000US-0123667.  
 XX (CURA-) CURAGEN CORP.  
 PA Shimkuts RA;  
 PI WPI; 2000-594318/56.  
 XX DR N-PSDB; AAA93621.  
 XX Novel human membrane associated or secreted polypeptides and  
 PT polynucleotides useful for diagnosis, prevention and treatment of



PT pathological states such as cancer, immune, cardiovascular and  
XX neurological disorders  
PS Claim 1; Fig 6; 15lpp; English.  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
CC proteins of the invention are either secreted or membrane-associated  
CC proteins and act as regulator of cellular proliferation and  
CC differentiation. SECX proteins or nucleotides are useful for diagnosing  
CC the presence of, or predisposition to, a disease associated with altered  
CC levels of SECX proteins and nucleotides. The SECX proteins are also  
CC useful to screen compounds that modulate SECX activity or expression. The  
CC interaction of a SECX protein with other cellular proteins may be useful  
CC to modulate the activity of a partner protein, cellular proliferation,  
CC cellular differentiation and cell survival. SECX nucleotides are useful  
CC for the recombinant expression of SECX protein, and may be used to detect  
CC SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
CC modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
CC nucleic acid sequences are also useful for identifying a cell or tissue  
CC type in a biological sample, and in forensic biology. SECX primers or  
CC probes are useful for detecting the presence of SECX nucleotides and for  
CC screening tissue cultures for contamination. Diseases that may be treated  
CC or prevented using SECX proteins or nucleotides include cancer (e.g.,  
CC colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
CC (including autoimmune diseases, transplant rejection, allergies, AIDS),  
CC infections, inflammatory disorders, arthritis, haematopoietic disorders,  
CC skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
CC neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
CC surgical or traumatic wounds, spinal cord injury), and skeletal  
XX disorders.  
XX Sequence 590 AA;  
SQ Query Match 49.6%; Score 324; DB 21; Length 590;  
Best Local Similarity 99.8%; Pred. No. 5e-304;  
Matches 424; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MKLLQVTHHTWNAILLPFVYLAQWILCAATAAASAGPQNCVSCSQNPQSKV 60  
DB 1 MKLLQVTHHTWNAILLPFVYLAQWILCAATAAASAGPQNCVSCSQNPQSKV 60  
QY 61 CTRERGLSEVFGQIPSNTRYLNLMENNIQMIQADTPRHLHLVQLGRNSIRQIEVGA 120  
DB 61 CTRERGLSEVFGQIPSNTRYLNLMENNIQMIQADTPRHLHLVQLGRNSIRQIEVGA 120  
QY 121 GLASLNTLELFDNWLTVIPSGAFYVLSKRLRLWLNPNPESIPSVAFNRVPSLMDLGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYVLSKRLRLWLNPNPESIPSVAFNRVPSLMDLGE 180  
QY 181 LKXLEYISGAGEGLFNLYNLGNCNKDMENLTPVLGLSELEMSGNHFFPIRPGSFHG 240  
DB 181 LKXLEYISGAGEGLFNLYNLGNCNKDMENLTPVLGLSELEMSGNHFFPIRPGSFHG 240  
QY 241 LSSLKKLWVNSQVSLIERNADFGLASVELMLAHNNLSLPHDLFTPLRYLVHLHLHN 300  
DB 241 LSSLKKLWVNSQVSLIERNADFGLASVELMLAHNNLSLPHDLFTPLRYLVHLHLHN 300  
QY 301 PWNCCDILWLAWLREYIPTNSTCGRCHAPMHWGRGYLVVEDQASQCSAPFIMDAPR 360  
DB 301 PWNCCDILWLAWLREYIPTNSTCGRCHAPMHWGRGYLVVEDQASQCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPMSSVKLLPNTGTVLHSHAPRISVLNDGTNLNFSHVLSDTG 420  
DB 361 DLNISEGRMAELKCRTPMSSVKLLPNTGTVLHSHAPRISVLNDGTNLNFSHVLSDTG 420  
QY 421 VYTCM 425  
DB 421 VYTCM 425

RESULT 25  
AAB23033  
ID AAB23033 standard; Protein; 694 AA.

XX AAB23033;  
AC 16-JAN-2001 (first entry)  
XX Human SLIT protein-like splice variant, SECX 3352358-1.  
XX SECX protein; human; secreted; membrane-associated; cancer;  
KW proliferation regulator; differentiation regulator; non-malignant tumour;  
KW immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
KW infection; inflammatory disorder; arthritis; haematopoietic disorder;  
KW skin disorder; cardiovascular disorder; atherosclerosis; restenosis;  
KW neurological disease; Alzheimer's disease; trauma; wounding;  
KW spinal cord injury; skeletal disorder; cytostatic; immunosuppressive;  
KW anti-HIV; antiinflammatory; antiarthritic; antiarteriosclerotic;  
KW neuroprotective; vulnery; antiallergic; antimicrobial; cardiant;  
KW dermatological; gene therapy.  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT Misc-difference 654 /label= unknown  
FT /note= "Encoded by TGA"  
XX WO2000053742-A2.  
XX 14-SEP-2000.  
XX 09-MAR-2000; 2000WO-US06280.  
XX 09-MAR-1999; 99US-0123667.  
XX 08-MAR-2000; 2000US-0123667.  
XX (CURA-) CURAGEN CORP.  
XX Shimkets RA;  
XX WPI: 2000-594318/56.  
XX N-PSDB; AA93620.  
XX Novel human membrane associated or secreted polypeptides and  
PT polynucleotides useful for diagnosis, prevention and treatment of  
PT pathological states such as cancer, immune, cardiovascular and  
PT neurological disorders  
XX Claim 1; Fig 5; 15lpp; English.  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
CC proteins of the invention are either secreted or membrane-associated  
CC proteins and act as regulator of cellular proliferation and  
CC differentiation. SECX proteins or nucleotides are useful for diagnosing  
CC the presence of, or predisposition to, a disease associated with altered  
CC levels of SECX proteins and nucleotides. The SECX proteins are also  
CC useful to screen compounds that modulate SECX activity or expression. The  
CC interaction of a SECX protein with other cellular proteins may be useful  
CC to modulate the activity of a partner protein, cellular proliferation,  
CC cellular differentiation and cell survival. SECX nucleotides are useful  
CC for the recombinant expression of SECX protein, and may be used to detect  
CC SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
CC modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
CC nucleic acid sequences are also useful for identifying a cell or tissue  
CC type in a biological sample, and in forensic biology. SECX primers or  
CC probes are useful for detecting the presence of SECX nucleotides and for  
CC screening tissue cultures for contamination. Diseases that may be treated  
CC or prevented using SECX proteins or nucleotides include cancer (e.g.,  
CC colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
CC (including autoimmune diseases, transplant rejection, allergies, AIDS),  
CC infections, inflammatory disorders, arthritis, haematopoietic disorders,  
CC skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
CC neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
CC surgical or traumatic wounds, spinal cord injury), and skeletal  
CC disorders.



20-OCT-2000; 2000US-241787P.  
 20-OCT-2000; 2000US-241808P.  
 20-OCT-2000; 2000US-241809P.  
 20-OCT-2000; 2000US-241826P.  
 01-NOV-2000; 2000US-244617P.  
 08-NOV-2000; 2000US-246474P.  
 08-NOV-2000; 2000US-246475P.  
 08-NOV-2000; 2000US-246476P.  
 08-NOV-2000; 2000US-246477P.  
 08-NOV-2000; 2000US-246478P.  
 08-NOV-2000; 2000US-246523P.  
 08-NOV-2000; 2000US-246524P.  
 08-NOV-2000; 2000US-246525P.  
 08-NOV-2000; 2000US-246526P.  
 08-NOV-2000; 2000US-246527P.  
 08-NOV-2000; 2000US-246528P.  
 08-NOV-2000; 2000US-246532P.  
 08-NOV-2000; 2000US-246609P.  
 08-NOV-2000; 2000US-246610P.  
 08-NOV-2000; 2000US-246611P.  
 08-NOV-2000; 2000US-246613P.  
 08-NOV-2000; 2000US-249207P.  
 17-NOV-2000; 2000US-249208P.  
 17-NOV-2000; 2000US-249209P.  
 17-NOV-2000; 2000US-249210P.  
 17-NOV-2000; 2000US-249211P.  
 17-NOV-2000; 2000US-249212P.  
 17-NOV-2000; 2000US-249213P.  
 17-NOV-2000; 2000US-249214P.  
 17-NOV-2000; 2000US-249215P.  
 17-NOV-2000; 2000US-249216P.  
 17-NOV-2000; 2000US-249217P.  
 17-NOV-2000; 2000US-249218P.  
 17-NOV-2000; 2000US-249244P.  
 17-NOV-2000; 2000US-249245P.  
 17-NOV-2000; 2000US-249246P.  
 17-NOV-2000; 2000US-249259P.  
 17-NOV-2000; 2000US-249297P.  
 17-NOV-2000; 2000US-249299P.  
 17-NOV-2000; 2000US-249300P.  
 01-DEC-2000; 2000US-250160P.  
 01-DEC-2000; 2000US-250351P.  
 05-DEC-2000; 2000US-251030P.  
 05-DEC-2000; 2000US-251988P.  
 05-DEC-2000; 2000US-251988P.  
 06-DEC-2000; 2000US-256719P.  
 08-DEC-2000; 2000US-251479P.  
 08-DEC-2000; 2000US-251856P.  
 08-DEC-2000; 2000US-251868P.  
 08-DEC-2000; 2000US-251869P.  
 08-DEC-2000; 2000US-251989P.  
 08-DEC-2000; 2000US-251990P.  
 11-DEC-2000; 2000US-254097P.  
 05-JAN-2001; 2001US-259678P.  
 (HUMA-) HUMAN GENOME SCI INC.  
 Rosen CA, Barash SC, Ruben SM;  
 WPI; 2001-476161/51.  
 N-PSDB; ABA06744.  
 Isolated nucleic acid molecule encoding an inflammation-associated polypeptide is used in preventing, treating or ameliorating a medical condition -  
 Claim 11; SEQ ID NO: 830; 859pp + Sequence Listing; English.  
 The present invention provides human cDNAs, proteins and related genomic DNAs. These can be used in the treatment of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative disorders and inflammation. The present sequence is a protein of the invention.

Query Match 41.2%; Score 269; DB 22; Length 281;  
 Best Local Similarity 100.0%; Pred. No. 3.6e-251;  
 Matches 289; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 222 ELEMGNHFFPEIRPGSFFGLSSLLKLVWYNSQVSLIERNAFDGLASLVELNLAHNNLSSL 281  
 Db 13 ELEMGNHFFPEIRPGSFFGLSSLLKLVWYNSQVSLIERNAFDGLASLVELNLAHNNLSSL 72  
 QY 282 PHDLFTPLRYLVVLEHLHHPNWCDDILLAWWLREYIPTNSTCCGCHAPMHRGRYLV 341  
 Db 73 PHDLFTPLRYLVVLEHLHHPNWCDDILLAWWLREYIPTNSTCCGCHAPMHRGRYLV 132  
 QY 342 EVDQASFQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPMTGTVLASHASHPRI 401  
 Db 133 EVDQASFQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPMTGTVLASHASHPRI 192  
 QY 402 SVINDGTLNFSEHVLSDTGVTCTMTNVAGNSASAYLNVTASLNTSNYSFPTTVTIVET 461  
 Db 193 SVINDGTLNFSEHVLSDTGVTCTMTNVAGNSASAYLNVTASLNTSNYSFPTTVTIVET 252  
 QY 462 TEISPEDITRKYKVPVPTTSTGQPAYTTS 490  
 Db 253 TEISPEDITRKYKVPVPTTSTGQPAYTTS 281  
 RESULT 27  
 AAU18084  
 ID AAU18084 standard; Protein; 281 AA.  
 AC AAU18084;  
 XX  
 DT 07-NOV-2001 (first entry)  
 XX  
 DE Human immunoglobulin polypeptide SEQ ID No 229.  
 XX Immunoglobulin; signal transduction pathway protein; cancer;  
 KW antisense therapy; gene therapy; neurological disorder; renal disorder;  
 KW cardiovascular disorder; gastrointestinal disorder; pulmonary disorder;  
 KW reproductive disorder; immune system disorder; proliferative disorder;  
 KW muscular disorder.  
 OS Homo sapiens.  
 XX WO200155315-A2.  
 XX  
 PD 02-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US01326.  
 XX  
 PR 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214896.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.



Query Match	41.2%	Score 269;	DB 22;	Length 281;
Best Local Similarity.	100.0%;	Fred. NO. 3.6e-251;		
Matches 269;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

  

QY	222	ELEMSGNHFP	PIRPGSGFHGLSSLKKLVWMSQVSLIERNAFDGLASLVEINLAHNNLSL	281
DB	13	ELEMSGNHFP	PIRPGSGFHGLSSLKKLVWMSQVSLIERNAFDGLASLVEINLAHNNLSL	72
QY	282	PHDLFTEPLRYLVEHLHENPNWCDDILWLAWMLRPYIPTNSTCCGRCHAPXEMRGRYLIV	341	
DB	73	PHDLFTEPLRYLVEHLHENPNWCDDILWLAWMLREYIPTNSTCCGRCHAPXEMRGRYLIV	132	
QY	342	EVDQASFOCSAPFIMDAPROLINISEGRMAELKCRTPMSSVKWLLPNGTVLSHGRHPRI	401	
DB	133	EVDQASFOCSAPFIMDAPROLINISEGRMAELKCRTPMSSVKWLLPNGTVLSHGRHPRI	192	
QY	402	SVLNDGTLNFSHLLSDTGVTTCMVTNAGNSASAYLVNVTAEMLNTSNYSFPTTVTVET	461	
DB	193	SVLNDGTLNFSHLLSDTGVTTCMVTNAGNSASAYLVNVTAEMLNTSNYSFPTTVTVET	252	
QY	462	TEISPEDTIRKYKVPVPTTSTGYQPAYTTS	490	
DB	253	TEISPEDTIRKYKVPVPTTSTGYQPAYTTS	281	

  

RESULT 28	
IDBPP67109	
ID	ABP67109 standard; Protein; 281 AA.
AC	ABP67109;
XX	
XX	
XX	
DT	09-DEC-2002 (first entry)
XX	
XX	
DE	Human polypeptide SEQ ID NO 830.
XX	
KW	Human; neurotropic; neuroprotective; cytostatic; dermatological; virucide;
KW	immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
KW	anti-parkinsonian; antickling; antianaemic; antiarthritic; cancer;
KW	antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW	antiallergic; antididiabetic; antitumor; anticonvulsant; antifungal;
KW	antiparasitic; cardanal; immune disorder; cardiovascular disorder;
KW	neurological disease; infection; neurotropic; gene therapy; vaccine.
OS	Homo sapiens.
XX	
XX	
PN	US2002090672-A1.
PD	
XX	11-JUL-2002.
XX	
PF	17-JAN-2001; 2001US-0764853.
XX	
XX	
PR	31-JAN-2000; 2000US-179065P.
PR	04-FEB-2000; 2000US-180628P.
PR	28-JUN-2000; 2000US-214836P.
PR	07-JUL-2000; 2000US-216647P.
PR	07-JUL-2000; 2000US-216880P.
PR	11-JUL-2000; 2000US-217487P.
PR	11-JUL-2000; 2000US-217496P.
PR	14-JUL-2000; 2000US-218290P.
PR	26-JUL-2000; 2000US-220963P.
PR	26-JUL-2000; 2000US-220964P.
PR	14-AUG-2000; 2000US-224518P.
PR	14-AUG-2000; 2000US-224519P.
PR	14-AUG-2000; 2000US-225267P.
PR	14-AUG-2000; 2000US-225268P.
PR	14-AUG-2000; 2000US-225270P.
PR	14-AUG-2000; 2000US-22547P.
PR	14-AUG-2000; 2000US-225757P.
PR	14-AUG-2000; 2000US-225758P.
PR	22-AUG-2000; 2000US-225868P.
PR	30-AUG-2000; 2000US-228924P.
PR	01-SEP-2000; 2000US-229287P.

b 13 ELEMSGNHFEIRPQSFHGLSSLLKLVNMSQVSLIERNAPDGLASVELNLAHNNLSSL 72  
y 282 PHDLFTPLRVLVELLHHPNCCDILANLWLRREYIPTNSTCCGRCHAPNMGRLV 341  
b 73 PHDLFTPLRVLVELLHHPNCCDILANLWLRREYIPTNSTCCGRCHAPNMGRLV 132  
y 342 EVDQASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPR 401  
b 133 EVDQASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPR 192  
y 402 SVLNDGTLNPSHVLSDTGYYTCWTVNAGNSASAYLNVSTAEALNTSNYSFFTIVTVE 461  
b 193 SVLNDGTLNPSHVLSDTGYYTCWTVNAGNSASAYLNVSTAEALNTSNYSFFTIVTVE 252  
y 462 TEISPEDTKKYPVTTSTGYPAYTTS 490  
b 253 TEISPEDTKKYPVTTSTGYPAYTTS 281

RESULT 29  
AV87135  
D AAY87135 standard; Protein; 224 AA.  
X  
C AAY87135;  
T 09-MAY-2000 (first entry)  
X Human secreted protein sequence SEQ ID NO:174.  
X Human; secreted protein; diagnosis; cytostatic; immunosuppressive;  
X antiinflammatory; nootropic; neuroprotection; antiallergic; cancer;  
X tumour; neurodegenerative disorder; developmental abnormality; allergy;  
X foetal deficiency; blood disorder; immune system disorder; arthritis;  
X autoimmune disease; hepatic disease; renal disease; inflammation;  
X Alzheimer's disease; behavioural disorder; schizophrenia; osteoporosis;  
X infection; AIDS; spinal cord injury; transplant rejection; diabetes;  
X asthma; sepsis; acne; psoriasis; cardiovascular disorder;  
X reproductive disorder; gastrointestinal disorder; respiratory disorder;  
X metabolic disorder; food additive; preservative.  
X Homo sapiens.  
X WO200004140-A1.  
X 27-JAN-2000.  
X 14-JUL-1999; 99WO-US15849.  
X 15-JUL-1998; 98US-0092921.  
X 15-JUL-1998; 98US-0092922.  
X 15-JUL-1998; 98US-0092956.  
X (HUMA-) HUMAN GENOME SCI INC.  
X Ruben SM, Komatsoulis G, Duan RD, Rosen CA, Moore PA, Shi Y;  
X Lafleur DW, Ebner R, Olsen HS, Brewer LA, Florence KA, Young PE;  
X Mucenski M, Endress GA, Soppet DR;  
X WPI: 2000-161128/14.  
X N-P5DB; AAZ98088.  
X New isolated human genes, useful for diagnosis and treatment of, e.g.  
X cancers, neurological or blood disorders -  
X  
X Claim 11; Page 426; 49app; English.  
X The polynucleotide sequences given in AAZ98017 to AAZ98108 encode the  
X human secreted proteins given in AAY87064 to AAY8723. Human secreted  
X protein can have activities based on the tissues and cells the genes are  
X expressed in. Examples of activities include: cytostatic;  
X immunosuppressive; antiinflammatory; nootropic; neuroprotective; and  
X antiallergic. The polynucleotides and their corresponding secreted  
X polypeptides are useful for preventing, treating or ameliorating medical

CC conditions, e.g. by protein or gene therapy. Also pathological conditions  
CC can be diagnosed by determining the amount of the new polypeptides in a  
CC sample or by determining the presence of mutations in the new  
CC polynucleotides. Human secreted proteins and their polynucleotides can  
CC be used for developing products for the diagnosis or treatment of cancer,  
CC tumours, neurodegenerative disorders, developmental abnormalities and  
CC foetal deficiencies, blood disorders, diseases of the immune system,  
CC autoimmune diseases, hepatic and renal disease, inflammation,  
CC allergies, Alzheimer's disease, behavioural disorders, schizophrenia,  
CC osteoporosis, arthritis, infections, AIDS, spinal cord injuries,  
CC transplant rejection, diabetes, asthma, sepsis, acne, psoriasis,  
CC cardiovascular disorders, reproductive disorders, gastrointestinal  
CC disorders, respiratory disorders and metabolic disorders. The  
CC proteins or polynucleotides can also be used as food additives or  
CC preservatives. The proteins are also useful for identifying their  
CC binding partners. AAZ98008 to AAZ98016 and AAY87063 are sequence used in  
CC the exemplification of the present invention.  
XX  
SQ Sequence 224 AA;  
Query Match 4.9%; Score 32; DB 21; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 142 AFEYLSKRLRLNPNPESIPSYAFNRVPSL 173  
DB 153 AFEYLSKRLRLNPNPESIPSYAFNRVPSL 184  
RESULT 30  
AAE06112  
ID AAE06112 standard; Protein; 224 AA.  
AC AAE06112;  
XX 24-SEP-2001 (first entry)  
XX Human gene 3 encoded secreted protein HHPG040, SEQ ID NO:174.  
XX Human; secreted protein; proliferative disorder; cancer; tumour; asthma;  
XX foetal abnormality; developmental abnormality; haematopoietic disorder;  
XX immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
XX Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;  
XX psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;  
XX inflammation; neurological disorder; Alzheimer's disease; food additive;  
XX angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;  
XX pregnancy-related disorder; endocrine disorder; infection; wound healing;  
XX cell culture; chemotaxis; vulnery; binding partner identification;  
XX gene therapy.  
XX Homo sapiens.  
XX  
XX Key Location/Qualifiers  
XX Peptide 1..37  
XX Protein 38..224 /label= Signal\_peptide  
XX Misc-difference 76 /label= Mature\_human\_secreted\_protein  
XX /label= Unknown  
XX /note= "Encoded by GAM"  
XX  
XX WO200151504-A1.  
XX  
XX 19-JUL-2001.  
XX  
XX 12-JAN-2001; 2001WO-US00911.  
XX  
XX 13-JAN-2000; 2000US-0482273.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Ruben SM, Komatsoulis GA, Duan DR, Rosen CA, Moore PA, Shi Y;  
XX Lafleur DW, Olsen HS, Brewer LA, Florence KA, Young PE, Soppet DR;  
PI

PI Endress GA, Muscenski M, Ebner R;

XX WPI: 2001-425865/45.  
XX N-PSDB; AAD11701.

XX Isolated nucleic acid molecule encoding a human secreted protein is  
XX used in preventing, treating or ameliorating a medical condition -  
XX Claim 11; Page 792-793; 864pp; English.

XX AAD11630-AAD11721 represent cDNAs corresponding to 71 human secreted  
XX protein genes, and AAB06041-AAS08132 represent the proteins they encode.  
XX AAB06133-AAS08205 represent human secreted protein fragments.  
XX The secreted proteins and their genes are useful for preventing, treating  
XX or ameliorating medical conditions, e.g., by protein or gene therapy.  
XX Pathological conditions can be diagnosed by determining the amount of the  
XX new protein in a sample or by determining the presence of mutations in  
XX the new genes. Specific uses are described for each of the 71 genes,  
XX based on the tissues in which they are most highly expressed, and include  
XX developing products for the diagnosis or treatment of proliferative  
XX disorders, cancer, tumours, foetal and developmental abnormalities,  
XX haematopoietic disorders, diseases of the immune system, AIDS, autoimmune  
XX diseases (e.g., rheumatoid arthritis), inflammation, allergies,  
XX neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),  
XX cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,  
XX psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,  
XX angiogenic disorders, kidney disorders, gastrointestinal disorders,  
XX pregnancy-related disorders, endocrine disorders, and infections. The  
XX proteins can also be used to aid wound healing and epithelial cell  
XX proliferation, to prevent skin aging due to sunburn, to maintain organs  
XX before transplantation, for supporting cell culture of primary tissues,  
XX to regenerate tissues, to identify their cognate ligands or binding  
XX partners, and in chemotaxis, and can be used as a food additive or  
XX preservative to modify storage properties. Antibodies specific for a  
XX protein of the invention can be used in alleviating symptoms associated  
XX with the disorders mentioned above, and in diagnostic immunoassays e.g.,  
XX radioimmunoassay or enzyme linked immunosorbent assay (ELISA).  
XX The present sequence represents a human secreted protein of

XX Sequence 224 AA;

Query Match 4.9%; Score 32; DB 22; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
Db |||||  
153 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184

RESULT 31  
ABG33934  
ID ABG33934 standard; Protein; 224 AA.

XX ABG33934;

XX 15-JUL-2002 (first entry)

XX Human secreted protein encoded by gene 3 #2.

XX Human; secreted protein; gene therapy; immunosuppressive;  
XX antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant;  
XX vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial;  
XX virucide; fungicide; opthalmological; autoimmune disease; neoplasm;  
XX rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;  
XX cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;  
XX angiogenesis; nervous system disorder; Alzheimer's disease; infection;  
XX ocular disorder; corneal infection; wound healing; skin aging;  
XX epithelial cell proliferation; food additive.

XX Homo sapiens.

PN WO200226931-A2.

XX 04-APR-2002.

XX 24-SEP-2001; 2001WO-US29871.

XX 25-SEP-2000; 2000US-234925P.

XX 12-JAN-2001; 2001WO-US00911.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Ruben SM, Komatsoulis G, Duan DR, Rosen CA, Moore PA, Shi Y;  
XX Lafleur DW, Olsen H, Brewer LA, Florence KA, Young FB, Soppet DR;  
XX Endress GA, Muscenski M, Ebner R;  
XX WPI: 2002-362489/39.  
XX N-PSDB; ABK69797.

XX Novel 71 isolated secreted polypeptides and polynucleotides encoding  
XX the polypeptides, useful for treating Huntington's disease, sepsis,  
XX meningitis, thrombocytopaenia, haemolytic anaemia, rheumatoid arthritis,  
XX asthma -

XX Claim 11; Page 1269-1270; 1478pp; English.

XX The invention relates to an isolated nucleic acid molecule (or its  
XX fragment, homologue complement or allelic variant) encoding a human  
XX secreted protein (and its fragment, domain, epitope, variant, secreted  
XX form and species variant). Also included are a recombinant vector  
XX comprising the nucleic acid, a recombinant host cell comprising the  
XX vector, an antibody against the secreted protein, a recombinant host cell  
XX that expresses the secreted protein and a method of identifying a binding  
XX partner of the secreted protein. The nucleic acid and protein are used to  
XX prevent, diagnose, treat or ameliorate a medical condition in e.g.  
XX humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep  
XX for example autoimmune diseases e.g. rheumatoid arthritis,  
XX hyperproliferative disorders e.g. neoplasms of the breast, or liver,  
XX cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders  
XX e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.  
XX Alzheimer's disease, infections caused by bacteria, viruses and fungi and  
XX ocular disorders e.g. corneal infection. Many other diseases and  
XX disorders are listed in the specification. The polypeptides can also be  
XX used to aid wound healing an epithelial cell proliferation, to prevent  
XX skin aging due to sunburn, to maintain organs before transplantation, for  
XX supporting cell culture of primary tissues, to regenerate tissues and in  
XX chemotaxis. The polypeptides can also be used as a food additive or  
XX preservative to increase or decrease storage capabilities. The present  
XX sequence represents a novel human secreted protein of the invention.

XX Sequence 224 AA;

Query Match 4.9%; Score 32; DB 23; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
Db |||||  
153 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184

RESULT 32

ABR48031  
ID ABR48031 standard; Protein; 224 AA.

XX ABR48031;

XX 12-JUN-2003 (first entry)

XX Human secreted protein, SEQ ID 922.

XX Cardiant; antiarrhythmic; antiarteriosclerotic; vasotropic; cytostatic;  
XX vulnary; antiinflammatory; nootropic; neuroprotective;  
XX antiparkinsonian; gene therapy; human; cardiovascular disorder.



XX Homo sapiens.  
 XX WO200295010-A2.  
 XX 28-NOV-2002.  
 XX 19-MAR-2002; 2002WO-US09785.  
 XX 21-MAR-2001; 2001US-277340P.  
 XX 19-JUL-2001; 2001US-306171P.  
 XX 13-NOV-2001; 2001US-331287P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Rosen CA, Ruben SM;  
 XX WPI; 2003-129429/12.  
 XX Novel human secreted proteins, useful for detecting, preventing,  
 XX diagnosing, prognosticating, treating and/or ameliorating  
 XX cardiovascular disorders such as arrhythmia -  
 XX Claim 13; SEQ ID 922; 1881pp; English.  
 XX The present invention relates to novel human secreted proteins  
 XX (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The  
 XX proteins and their coding sequences are useful for the preparation of a  
 XX diagnostic or pharmaceutical composition for diagnosing or treating a  
 XX cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest,  
 XX coronary arteriosclerosis and myocardial ischaemia), neural disorders,  
 XX immune system disorders, muscular disorders, reproductive disorders,  
 XX gastrointestinal disorders, pulmonary disorders, renal disorders, for  
 XX proliferative disorders and/or cancerous diseases and conditions, for  
 XX wound healing and epithelial cell proliferation, to treat inflammation or  
 XX infection, for treating thrombosis and arteriosclerosis, for treating or  
 XX preventing neural damage which occurs in neuronal disorders or  
 XX neurodegenerative conditions such as Alzheimer's disease and Parkinson's  
 XX disease, to enhance bone and periodontal regeneration and aid in tissue  
 XX transplants or bone grafts, to prevent skin aging or hair loss, to  
 XX stimulate growth and differentiation of haematopoietic cells and bone  
 XX marrow cells when used in combination with other cytokines, to maintain  
 XX organs before transplantation or for supporting cell culture of primary  
 XX tissues, to increase or decrease differentiation or proliferation of  
 XX embryonic stem cells, or to modulate mammalian characteristics or  
 XX metabolism.  
 XX Note: The sequence data for this patent was published in electronic  
 XX format and is available from WIPO at  
 XX ftp.wipo.int/pub/published\_pct\_sequences.  
 XX Sequence 224 AA;  
 XX Query Match 4.9%; Score 32; DB 24; Length 224;  
 XX Best Local Similarity 100.0%; Pred. No. 3.2e-22; Mismatches 0; Indels 0; Gaps 0;  
 XX Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX Y 142 AFEYLSKRLRLNLPNPIESIPSYAFNRVPSL 173  
 XX |||||  
 XX 153 AFEYLSKRLRLNLPNPIESIPSYAFNRVPSL 184  
 XX |||||  
 XX RESULT 33  
 XX BR47760  
 XX D ABR47760 standard; Protein; 295 AA.  
 XX X ABR47760;  
 XX C  
 XX T 12-JUN-2003 (first entry)  
 XX T Human secreted protein, SEQ ID 651.  
 XX E  
 XX X Cardiant; antiarrhythmic; antiarteriosclerotic; vasotrophic; cytostatic;  
 XX W vulnerary; antiinflammatory; nootropic; neuroprotective;

KW antiparkinsonian; gene therapy; human; cardiovascular disorder.  
 XX Homo sapiens.  
 XX WO200295010-A2.  
 XX 28-NOV-2002.  
 XX 19-MAR-2002; 2002WO-US09785.  
 XX 21-MAR-2001; 2001US-277340P.  
 XX 19-JUL-2001; 2001US-306171P.  
 XX 13-NOV-2001; 2001US-331287P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Rosen CA, Ruben SM;  
 XX WPI; 2003-129429/12.  
 XX Novel human secreted proteins, useful for detecting, preventing,  
 XX diagnosing, prognosticating, treating and/or ameliorating  
 XX cardiovascular disorders such as arrhythmia -  
 XX Claim 13; SEQ ID 651; 1881pp; English.  
 XX The present invention relates to novel human secreted proteins  
 XX (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The  
 XX proteins and their coding sequences are useful for the preparation of a  
 XX diagnostic or pharmaceutical composition for diagnosing or treating a  
 XX cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest,  
 XX coronary arteriosclerosis and myocardial ischaemia), neural disorders,  
 XX immune system disorders, muscular disorders, reproductive disorders,  
 XX gastrointestinal disorders, pulmonary disorders, renal disorders, for  
 XX proliferative disorders and/or cancerous diseases and conditions, for  
 XX wound healing and epithelial cell proliferation, to treat inflammation or  
 XX infection, for treating thrombosis and arteriosclerosis, for treating or  
 XX preventing neural damage which occurs in neuronal disorders or  
 XX neurodegenerative conditions such as Alzheimer's disease and Parkinson's  
 XX disease, to enhance bone and periodontal regeneration and aid in tissue  
 XX transplants or bone grafts, to prevent skin aging or hair loss, to  
 XX stimulate growth and differentiation of haematopoietic cells and bone  
 XX marrow cells when used in combination with other cytokines, to maintain  
 XX organs before transplantation or for supporting cell culture of primary  
 XX tissues, to increase or decrease differentiation or proliferation of  
 XX embryonic stem cells, or to modulate mammalian characteristics or  
 XX metabolism.  
 XX Note: The sequence data for this patent was published in electronic  
 XX format and is available from WIPO at  
 XX ftp.wipo.int/pub/published\_pct\_sequences.  
 XX Sequence 295 AA;  
 XX Query Match 4.9%; Score 32; DB 24; Length 295;  
 XX Best Local Similarity 100.0%; Pred. No. 4.2e-22; Mismatches 0; Indels 0; Gaps 0;  
 XX Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX Y 142 AFEYLSKRLRLNLPNPIESIPSYAFNRVPSL 173  
 XX |||||  
 XX 137 AFEYLSKRLRLNLPNPIESIPSYAFNRVPSL 168  
 XX |||||  
 XX RESULT 34  
 XX AAY87066  
 XX ID AAY87066 standard; Protein; 302 AA.  
 XX X AAY87066;  
 XX C  
 XX T 09-MAY-2000 (first entry)  
 XX T Human secreted protein sequence SEQ ID NO:105.  
 XX DE Human; secreted protein; diagnosis; cytostatic; immunosuppressive;



antiinflammatory; nootropic; neuroprotective; antiallergic; cancer;  
 KW tumour; neurodegenerative disorder; developmental abnormality; allergy;  
 KW foetal deficiency; blood disorder; immune system disorder; arthritis;  
 KW autoimmune disease; hepatic disease; renal disease; inflammation;  
 KW Alzheimer's disease; behavioural disorder; schizophrenia; osteoporosis;  
 KW infection; AIDS; spinal cord injury; transplant rejection; diabetes;  
 KW asthma; sepsis; acne; psoriasis; cardiovascular disorder;  
 KW reproductive disorder; gastrointestinal disorder; respiratory disorder;  
 KW metabolic disorder; food additive; preservative.  
 XX Homo sapiens.  
 XX  
 XX WC200004140-A1.  
 XX  
 XX 27-JAN-2000.  
 XX  
 XX 14-JUL-1999; 99WO-US15849.  
 XX  
 XX 15-JUL-1998; 98US-0092921.  
 XX 15-JUL-1998; 98US-0092922.  
 XX 15-JUL-1998; 98US-0092956.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Ruben SM, Komatsoulis G, Duan RD, Rosen CA, Moore PA, Shi Y;  
 PI Lafleur DW, Ebner R, Olsen HS, Brewer LA, Florence KA, Young PE;  
 PI Mucenski M, Erdress GA, Soppet DR;  
 XX  
 XX WPI: 2000-161128/14.  
 XX N-PSDB; AA298019.  
 XX  
 XX New isolated human genes, useful for diagnosis and treatment of, e.g.  
 XX cancers, neurological or blood disorders -  
 XX  
 XX Claim 11; Page 372-373; 494pp; English.  
 XX  
 XX The polynucleotide sequences given in AA298017 to AA298108 encode the  
 XX human secreted proteins given in AA29804 to AA298223. Human secreted  
 XX protein can have activities based on the tissues and cells the genes are  
 XX expressed in. Examples of activities include: cytostatic;  
 XX immunosuppressive; antiinflammatory; nootropic; neuroprotective; and  
 XX antiallergic. The polynucleotides and their corresponding secreted  
 XX polypeptides are useful for preventing, treating or ameliorating medical  
 XX conditions, e.g. by protein or gene therapy. Also pathological conditions  
 XX can be diagnosed by determining the amount of the new polypeptides in a  
 XX sample or by determining the presence of mutations in the new  
 XX polynucleotides. Human secreted protein s and their polynucleotides can  
 XX be used for developing products for the diagnosis or treatment of cancer,  
 XX tumours, neurodegenerative disorders, developmental abnormalities and  
 XX foetal deficiencies, blood disorders, diseases of the immune system,  
 XX autoimmune diseases, hepatic and renal disease, inflammation,  
 XX allergies, Alzheimer's disease, behavioural disorders, schizophrenia,  
 XX osteoporosis, arthritis, infections, AIDS, spinal cord injuries,  
 XX transplant rejection, diabetes, asthma, sepsis, acne, psoriasis,  
 XX cardiovascular disorders, reproductive disorders, gastrointestinal  
 XX disorders, respiratory disorders and metabolic disorders. The  
 XX proteins or polynucleotides can also be used as food additives or  
 XX preservatives. The proteins are also useful for identifying their  
 XX binding partners. AA298008 to AA298016 and AA298063 are sequence used in  
 XX the exemplification of the present invention.  
 XX  
 XX Sequence 302 AA;  
 XX  
 XX Query Match 4.9%; Score 32; DB 21; Length 302;  
 XX Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
 XX Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 XX QY 142 AFEYLSKRLRLWLNNTIESIPSVAFNRVPSL 173  
 XX |||||  
 XX Db 153 AFEYLSKRLRLWLNNTIESIPSVAFNRVPSL 184  
 XX |||||

RESULT 35

AAE06043  
 ID AAE06043 standard; Protein; 302 AA.  
 XX  
 XX AC AAE06043;  
 XX  
 XX DT 24-SEP-2001 (first entry)  
 XX  
 XX DE Human gene 3 encoded secreted protein HEPG040, SEQ ID NO:105.  
 XX  
 XX KW Human; secreted protein; proliferative disorder; cancer; tumour; asthma;  
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;  
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
 KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;  
 KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;  
 KW inflammation; neurological disorder; Alzheimer's disease; food additive;  
 KW angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;  
 KW pregnancy-related disorder; endocrine disorder; infection; wound healing;  
 KW cell culture; chemotaxis; vulnery; binding partner identification;  
 KW gene therapy.  
 XX Homo sapiens.  
 XX  
 XX OS  
 XX  
 XX FH Key Location/Qualifiers  
 FT Peptide 1..37  
 FT /label= Signal\_peptide  
 FT Protein 38..302  
 FT /label= Mature\_human\_secreted\_protein  
 XX  
 XX W0200151504-A1.  
 XX  
 XX 19-JUL-2001.  
 XX  
 XX 12-JAN-2001; 2001WO-US00911.  
 XX  
 XX 13-JAN-2000; 2000US-0482273.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Ruben SM, Komatsoulis GA, Duan DR, Rosen CA, Moore PA, Shi Y;  
 PI Lafleur DW, Olsen HS, Brewer LA, Florence KA, Young PE, Soppet DR;  
 PI Erdress GA, Mucenski M, Ebner R;  
 XX  
 XX WPI: 2001-425865/45.  
 XX N-PSDB; AAD11632.  
 XX  
 XX PT Isolated nucleic acid molecule encoding a human secreted protein is  
 XX used in preventing, treating or ameliorating a medical condition -  
 XX  
 XX PS Claim 11; Page 739-740; 864pp; English.  
 XX  
 XX AA011630-AA011721 represent cDNAs corresponding to 71 human secreted  
 XX protein genes, and AAE06041-AAE06132 represent the proteins they encode.  
 XX AAE06133-AAE06205 represent human secreted protein fragments.  
 XX The secreted proteins and their genes are useful for preventing, treating  
 XX or ameliorating medical conditions, e.g., by protein or gene therapy.  
 XX Pathological conditions can be diagnosed by determining the amount of the  
 XX new protein in a sample or by determining the presence of mutations in  
 XX the new genes. Specific uses are described for each of the 71 genes,  
 XX based on the tissues in which they are most highly expressed, and include  
 XX developing products for the diagnosis or treatment of proliferative  
 XX disorders, cancer, tumours, foetal and developmental abnormalities,  
 XX haematopoietic disorders, diseases of the immune system, AIDS, autoimmune  
 XX diseases (e.g., rheumatoid arthritis), inflammation, allergies, skin  
 XX neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),  
 XX cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,  
 XX psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,  
 XX angiogenic disorders, kidney disorders, gastrointestinal disorders,  
 XX pregnancy-related disorders, endocrine disorders, and infections. The  
 XX proteins can also be used to aid wound healing and epithelial cell  
 XX proliferation, to prevent skin aging due to sunburn, to maintain organs  
 XX before transplantation, for supporting cell culture of primary tissues,  
 XX to regenerate tissues, to identify their cognate ligands or binding  
 XX partners, and in chemotaxis, and can be used as a food additive or

preservative to modify storage properties. Antibodies specific for a protein of the invention can be used in alleviating symptoms associated with the disorders mentioned above, and in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The present sequence represents a human secreted protein of the invention.

Sequence 302 AA;

Query Match 4.9%; Score 32; DB 22; Length 302;  
Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

142 APEYLSKRLRLWLNPNIESIPSYAFNRPVSL 173  
|||||  
153 APEYLSKRLRLWLNPNIESIPSYAFNRPVSL 184

RESULT 36  
ABG33865  
ABG33865 standard; Protein; 302 AA.

ABG33865;

15-JUL-2002 (first entry)

Human secreted protein encoded by gene 3 #1.

Human; secreted protein; Gene therapy; immunosuppressive;  
antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant;  
vasotropic; cerebroprotective; neotropic; neuroprotective; antibacterial;  
virucide; fungicide; opthalmological; autoimmune disease; neoplasm;  
rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;  
cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;  
angiogenesis; nervous system disorder; Alzheimer's disease; infection;  
ocular disorder; corneal infection; wound healing; skin aging;  
epithelial cell proliferation; food additive.

Homo sapiens.

WO2002269311-A2.

04-APR-2002.

24-SEP-2001; 2001WO-US29871.

25-SEP-2000; 2000US-234925P.

12-JAN-2001; 2001WO-US00911.

(HUMA-) HUMAN GENOME SCI INC.

Ruben SM, Komatsoulis G, Duan DR, Rosen CA, Moore PA, Shi Y;  
Lafleur DW, Olsen H, Brewer LA, Florence KA, Young FB, Soppet DR;  
Endress GA, Mucenski M, Ebner R;

WPI; 2002-362489/39.

N-PSDB; ABK69728.

Novel 71 isolated secreted polypeptides and polynucleotides encoding the polypeptides, useful for treating Huntington's disease, sepsis, meningitis, thrombocytopaenia, haemolytic anaemia, rheumatoid arthritis, asthma

Claim 11; Page 1221-1222; 1478pp; English.

The invention relates to an isolated nucleic acid molecule (or its fragment, homologue complement or allelic variant) encoding a human secreted protein (and its fragment, domain, epitope, variant, secreted form and species variant). Also included are a recombinant vector comprising the nucleic acid, a recombinant host cell comprising the vector, an antibody against the secreted protein, a recombinant host cell that expresses the secreted protein and a method of identifying a binding partner of the secreted protein. The nucleic acid and protein are used to

prevent, diagnose, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep for example autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast, or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. Many other diseases and disorders are listed in the specification. The polypeptides can also be used to aid wound healing an epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. The present sequence represents a novel human secreted protein of the invention.

Sequence 302 AA;

Query Match 4.9%; Score 32; DB 23; Length 302;  
Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 APEYLSKRLRLWLNPNIESIPSYAFNRPVSL 173  
|||||

Db 153 APEYLSKRLRLWLNPNIESIPSYAFNRPVSL 184  
|||||

RESULT 37

ABR48030

ID ABR48030 standard; Protein; 302 AA.

AC ABR48030;

DT 12-JUN-2003 (first entry)

DE Human secreted protein, SEQ ID 921.

Cardiant; antiarrhythmic; antiarteriosclerotic; vasotropic; cytostatic; vulnery; antiinflammatory; neotropic; neuroprotective;  
antiparkinsonian; gene therapy; Human; cardiovascular disorder.

Homo sapiens.

WO200295010-A2.

28-NOV-2002.

19-MAR-2002; 2002WO-US09785.

21-MAR-2001; 2001US-277340P.

19-JUL-2001; 2001US-306171P.

13-NOV-2001; 2001US-331287P.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Ruben SM;

WPI; 2003-129429/12.

Novel human secreted proteins, useful for detecting, preventing, diagnosing, prognosticating, treating and/or ameliorating cardiovascular disorders such as arrhythmia

Claim 13; SEQ ID 921; 1881pp; English.

The present invention relates to novel human secreted proteins (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The proteins and their coding sequences are useful for the preparation of a diagnostic or pharmaceutical composition for diagnosing or treating a cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest, coronary arteriosclerosis and myocardial ischaemia), neural disorders, immune system disorders, muscular disorders, reproductive disorders, gastrointestinal disorders, pulmonary disorders, renal disorders,

XX proliferative disorders and/or cancerous diseases and conditions, for  
 XX wound healing and epithelial cell proliferation, to treat inflammation or  
 XX infection, for treating thrombosis and arteriosclerosis, for treating or  
 XX preventing neural damage which occurs in neuronal disorders or  
 XX neurodegenerative conditions such as Alzheimer's disease and Parkinson's  
 XX disease, to enhance bone and periodontal regeneration and aid in tissue  
 XX transplants or bone grafts, to prevent skin aging or hair loss, to  
 XX stimulate growth and differentiation of haematopoietic cells and bone  
 XX marrow cells when used in combination with other cytokines, to maintain  
 XX organs before transplantation or for supporting cell culture of primary  
 XX tissues, to increase or decrease differentiation or proliferation of  
 XX embryonic stem cells, or to modulate mammalian characteristics or  
 XX metabolism.

XX Note: The sequence data for this patent was published in electronic  
 XX format and is available from WIPO at  
 XX ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 302 AA;

Query Match 4.9%; Score 32; DB 24; Length 302;  
 Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 142 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
 |||||  
 153 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184

RESULT 38

ABG97967  
 ID ABG97967 standard; Protein: 634 AA.

XX AC ABG97967;

XX 07-JAN-2003 (first entry)

XX Human nervous system leucine rich repeat protein (HLRRNS1) #1.

XX Leucine rich repeat; nervous system; human; neural disorder; apoptosis;  
 XX renal disorder; immune disorder; arthritis; asthma; AIDS;  
 XX acquired immunodeficiency syndrome; rheumatoid arthritis;  
 XX haematopoietic disorder; metabolic disease; reproductive disorder;  
 XX pulmonary disease; cardiovascular disease; hyperproliferative disorder;  
 XX neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 XX Huntington's disease; developmental disorder; autoimmune disease;  
 XX Addison's disease; haemolytic anaemia; antiphospholipid syndrome;  
 XX allergic encephalomyelitis; gene therapy.

XX Homo sapiens.

XX WO200274959-A2.

XX 26-SEP-2002.

XX 20-DEC-2001; 2001WO-US50457.

XX 03-JAN-2001; 2001US-259479P.

XX 09-JAN-2001; 2001US-260616P.

XX (BRIM ) BRISTOL-MYERS SQUIBB CO.

XX Ramanathan C, Feder J, Mintier G;

XX WPI: 2002-750554/81.

XX P-PSDB; ABG97967.

XX New HLRRNS1 nucleic acids and polypeptides, useful for preventing,  
 XX treating, or ameliorating e.g. renal disorder, immune, haematopoietic,  
 XX metabolic, reproductive, pulmonary, cardiovascular or autoimmune  
 XX diseases.

XX Claim 5; Fig 1A-C; 415pp; English.

CC The invention describes nucleic acids encoding human leucine-rich repeat  
 CC containing proteins expressed in nervous system tissues, HLRRNS1. The  
 CC HLRRNS1 polypeptide or the polynucleotide is useful for preventing,  
 CC treating, or ameliorating a neural disorder or a disorder related to  
 CC aberrant apoptosis modulation (either directly or indirectly), renal  
 CC disorder, immune disorder (e.g. arthritis, asthma, acquired  
 CC immunodeficiency syndrome (AIDS) or rheumatoid arthritis),  
 CC haematopoietic, metabolic, reproductive, pulmonary or cardiovascular  
 CC diseases, hyperproliferative disorders, neurodegenerative diseases  
 CC (e.g. Alzheimer's disease, Parkinson's disease or Huntington's  
 CC disease), developmental disorders, non-infections disorders, nervous  
 CC system diseases and/or disorders, and autoimmune diseases (e.g.  
 CC Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or  
 CC allergic encephalomyelitis). The polynucleotides are also useful as  
 CC chromosome markers, for chromosome identification, gene therapy, and in  
 CC identifying organisms from minute biological samples. This is the amino  
 CC acid sequence of a leucine-rich repeat containing protein.

XX Sequence 634 AA;

Query Match 4.9%; Score 32; DB 23; Length 634;  
 Best Local Similarity 100.0%; Pred. No. 8.4e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
 |||||  
 DB 153 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184

RESULT 39

AAU91341  
 ID AAU91341 standard; Protein: 656 AA.

XX AC AAU91341;

XX 18-JUN-2002 (first entry)

XX Human novel secreted protein LP223 (b).

XX Human; secreted protein; cancer; autoimmune disease;  
 XX arthritis; osteoporosis; Alzheimer's disease; Parkinson's disease;  
 XX meningitis; encephalitis; neoplasia; trauma; ischaemia; infarction;  
 XX mania; stroke; cardiovascular disease; atherosclerosis; sepsis; anaemia;  
 XX rheumatoid arthritis; hypothyroidism; allergic response; liver failure;  
 XX multiple sclerosis; haemorrhage; paranoia; obsessive compulsive disorder;  
 XX autism; panic disorder; learning disability; feeding disorder;  
 XX sleep pattern disorder; balance; perception; Th1-dependent insulinitis;  
 XX adult respiratory distress syndrome; ARDS.

XX Homo sapiens.

XX WO200214358-A2.

XX 21-FEB-2002.

XX 30-JUL-2001; 2001WO-US21134.

XX 11-AUG-2000; 2000US-224642P.

XX 19-OCT-2000; 2000US-241779P.

XX (ELIL ) LILLY & CO ELI.

XX Edmonds BT, Micanovic R, Ou W, Su EW, Tschang SR, Wang H;

XX WPI: 2002-304057/34.

XX N-PSDB; ABK62093.

XX Novel polypeptides and polynucleotides of secreted proteins useful for  
 XX treating various diseases such as multiple sclerosis, cancer, Parkinson's  
 XX autoimmune diseases, osteoporosis, Alzheimer's disease and Parkinson's  
 XX disease.

XX Claim 9; Page 231-234; 235pp; English.

XX The invention relates to a novel human secreted polypeptide having  
 XX sequence 90% identical to the polypeptide sequences of LP105, LP106,  
 XX LP224, LP240, LP239(a), LP243(a), LP243(b), LP253, LP254(a), LP255(a),  
 XX LP252, LP239(b), LP255(a), LP244, LP186, LP251(b), LP255(b),  
 XX or LP223(b). Also included are the nucleic acids encoding the LP  
 XX proteins (including complement, fragments encoding mature forms of the  
 XX polypeptide or variant), a vector comprising the nucleic acid, a  
 XX host cell comprising the vector, the preparation of the protein,  
 XX an anti-LP antibody, ant/agonists of LP and anti-LP-encoding mRNA  
 XX ribozymes. The secreted protein or its agonist is useful in the  
 XX manufacture of a medicament for treating a mammal suffering from a  
 XX disease (and in diagnosis), condition or disorder associated with  
 XX aberrant levels of the secreted protein e.g. cancer, autoimmune diseases,  
 XX arthritis, osteoporosis, Alzheimer's disease, Parkinson's disease,  
 XX meningitis, encephalitis, neoplasia, trauma, ischaemia and infarction,  
 XX mania, stroke, cardiovascular disease, atherosclerosis, rheumatoid  
 XX arthritis, hypothyroidism, anaemia, sepsis, allergic responses, multiple  
 XX sclerosis, liver failure, haemorrhages, paranoia, obsessive compulsive  
 XX disorder, autism, panic disorder, learning disabilities, ALS  
 XX (amyotrophic lateral sclerosis) psychoses, disorders in feeding,  
 XX sleep patterns, balance, and perception, Thi-dependent insulinitis, adult  
 XX respiratory distress syndrome (ARDS). The secreted protein is further  
 XX useful for identifying compounds that bind to the secreted protein. The  
 XX present sequence represents a novel secreted protein of the invention.

SQ Sequence 656 AA;  
 Query Match 4.9%; Score 32; DB 23; Length 656;  
 Best Local Similarity 100.0%; Pred. No. 8.7e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 142 AFEYLSKRLRLNPNPIESIPSYAFNRVPSL 173  
 DB 153 AFEYLSKRLRLNPNPIESIPSYAFNRVPSL 184

RESULT 40  
 AAEL13006  
 ID AAEL13006 standard; Protein: 713 AA.

AAEL13006;  
 28-JAN-2002 (first entry)

XX Human leucine-rich repeat (LRR) family member protein.  
 XX Human; leucine-rich repeat; LRR; 31939 protein; therapy;  
 XX cell proliferation; differentiation disorder; cancer; neuronal disorder;  
 XX neurological disorder; demyelinating disease; multiple sclerosis;  
 XX degenerative disease; Alzheimer's disease; Huntington's disease;  
 XX spinocerebellar degeneration; nervous system; bone disorder;  
 XX osteoporosis; immune disorder; rheumatoid arthritis; diabetes mellitus;  
 XX cardiovascular disorder; liver disorder; viral disease; pain;  
 XX metabolic disorder; chromosomal mapping; tissue typing; forensic biology;  
 XX cytosolic; nontropic; neuroprotective; anticonvulsant; osteopathic;  
 XX antirheumatic; antiarthritic; virucide; analgesic.

XX Homo sapiens.  
 FH Key Location/Qualifiers  
 FT Peptide 1..38  
 FT Protein 39..713  
 FT Domain 56..85 /label= N-terminal\_LRR\_domain  
 FT Domain 87..110 /label= LRR\_domain  
 FT Domain 111..134 /label= LRR\_domain  
 FT Domain 135..158 /label= LRR\_domain

FT Domain 159..182 /label= LRR\_domain  
 FT Domain 183..207 /label= LRR\_domain  
 FT Domain 208..229 /label= LRR\_domain  
 FT Domain 230..253 /label= LRR\_domain  
 FT Domain 254..277 /label= LRR\_domain  
 FT Domain 278..301 /label= LRR\_domain  
 FT Domain 311..362 /label= C-terminal\_LRR\_domain  
 FT Domain 378..438 /label= Immunoglobulin\_domain  
 XX WQ200175105-A2.  
 PD 11-OCT-2001.  
 XX 30-MAR-2001; 2001WO-US10380.  
 XX 31-MAR-2000; 2000US-193919P.  
 XX (WILL-) MILLENNIUM PHARM INC.  
 XX Glucksmann MA;  
 DR WPI; 2001-662974/76.  
 DR N-PSDB; AAD21287.  
 XX New polypeptide useful for treating cancer, multiple sclerosis,  
 XX Alzheimer's disease, osteoporosis, arthritis, and metabolic and liver  
 XX disorders comprises the 31939 polypeptide belonging to the leucine-rich  
 XX repeat family

PS Claim 9; Fig 1A-1C; 117pp; English.  
 XX The present sequence is a human leucine-rich repeat (LRR) family  
 XX member (referred as 31939) protein. The 31939 protein is useful for  
 XX treating cell proliferative or differentiative disorder, e.g., cancer  
 XX disorders or neuronal disorders, neurological disorders, demyelinating  
 XX diseases such as multiple sclerosis, degenerative diseases such as  
 XX Alzheimer's disease and Huntington's disease, spinocerebellar  
 XX degenerations, disorders of the central or peripheral nervous system,  
 XX bone disorders such as osteoporosis, immune disorders such as  
 XX rheumatoid arthritis, diabetes mellitus, cardiovascular disorders,  
 XX liver disorders, viral diseases, pain or metabolic disorders. They  
 XX are also useful as markers of disorders or disease states. or for  
 XX precursors or markers for the predisposition of disease states. They  
 XX are useful in screening and detection assays such as chromosomal  
 XX mapping, tissue typing, and forensic biology.

SQ Sequence 713 AA;  
 Query Match 4.9%; Score 32; DB 22; Length 713;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 142 AFEYLSKRLRLNPNPIESIPSYAFNRVPSL 173  
 DB 153 AFEYLSKRLRLNPNPIESIPSYAFNRVPSL 184

RESULT 41  
 ABG97991  
 ID ABG97991 standard; Protein: 713 AA.  
 AC ABG97991;  
 XX 07-JAN-2003 (first entry)

DE Human nervous system leucine rich repeat protein (HLRRNS1) #2.  
 XX Leucine rich repeat; nervous system; human; neural disorder; apoptosis;  
 KW renal disorder; immune disorder; arthritis; asthma; AIDS;  
 KW acquired immunodeficiency syndrome; rheumatoid arthritis;  
 KW haematopoietic disorder; metabolic disease; hyperproliferative disorder;  
 KW pulmonary disease; cardiovascular disease; hyperproliferative disorder;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; developmental disorder; autoimmune disease;  
 KW Addison's disease; haemolytic anaemia; antiphospholipid syndrome;  
 KW allergic encephalomyelitis; gene therapy.  
 XX Homo sapiens.  
 OS  
 XX  
 XX WO200274959-A2.  
 PN  
 XX  
 XX 26-SEP-2002.  
 ED  
 XX  
 XX 20-DEC-2001; 2001WO-US50457.  
 PF  
 XX  
 XX 03-JAN-2001; 2001US-259479P.  
 FR  
 XX  
 XX 09-JAN-2001; 2001US-260616P.  
 PR  
 XX  
 XX (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 PA  
 XX  
 XX Ramanathan C, Feder J, Mintier G;  
 PI  
 XX  
 XX WPI; 2002-750554/81.  
 DR  
 XX  
 XX N-PSDB; ABX03577.  
 DR  
 XX  
 XX New HLRRNS1 nucleic acids and polypeptides, useful for preventing,  
 PT treating, or ameliorating e.g. renal disorder, immune, haematopoietic,  
 PT metabolic, reproductive, pulmonary, cardiovascular or autoimmune  
 PT diseases  
 PT  
 XX  
 XX Claim 5; Fig 4A-C; 415pp; English.  
 PS  
 XX  
 XX The invention describes nucleic acids encoding human leucine-rich repeat  
 CC containing proteins expressed in nervous system tissues, HLRRNS1. The  
 CC HLRRNS1 polypeptide or the polynucleotide is useful for preventing,  
 CC treating, or ameliorating a neural disorder or a disorder related to  
 CC aberrant apoptosis modulation (either directly or indirectly), renal  
 CC disorder, immune disorder (e.g. arthritis, asthma, acquired  
 CC immunodeficiency syndrome (AIDS) or rheumatoid arthritis),  
 CC haematopoietic, metabolic, reproductive, pulmonary or cardiovascular  
 CC diseases, hyperproliferative disorders, neurodegenerative diseases  
 CC (e.g. Alzheimer's disease, Parkinson's disease or Huntington's  
 CC disease), developmental disorders, non-infections disorders, nervous  
 CC system diseases and/or disorders, and autoimmune diseases (e.g.  
 CC Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or  
 CC allergic encephalomyelitis). The polynucleotides are also useful as  
 CC chromosome markers, for chromosome identification, gene therapy, and in  
 CC identifying organisms from minute biological samples. This is the amino  
 CC acid sequence of a leucine-rich repeat containing protein.  
 XX  
 XX Sequence 713 AA;  
 SQ  
 Query Match 4.9%; Score 32; DB 23; Length 713;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 142 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 173  
 |||||  
 DB 153 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 184  
 |||||  
 RESULT 42  
 AAU91335  
 ID AAU91335 standard; Protein; 713 AA.  
 XX  
 XX AAU91335;  
 AC  
 XX  
 DT 18-JUN-2002 (first entry)

XX Human novel secreted protein LP223(a).  
 DE  
 XX Human; secreted protein; cancer; autoimmune disease;  
 KW arthritis; osteoporosis; Alzheimer's disease; Parkinson's disease;  
 KW meningitis; encephalitis; neoplasia; trauma; ischaemia; infarction;  
 KW mania; stroke; cardiovascular disease; atherosclerosis; sepsis; anaemia;  
 KW rheumatoid arthritis; hypothyroidism; allergic response; liver failure;  
 KW multiple sclerosis; haemorrhage; paranoia; obsessive compulsive disorder;  
 KW autism; panic disorder; learning disability; feeding disorder;  
 KW sleep pattern disorder; balance; perception; Th1-dependent insulinitis;  
 KW adult respiratory distress syndrome; ARDS.  
 XX  
 OS  
 XX Homo sapiens.  
 XX  
 XX WO200214358-A2.  
 PN  
 XX  
 XX 21-FEB-2002.  
 PD  
 XX  
 XX 30-JUL-2001; 2001WO-US21124.  
 PF  
 XX  
 XX 11-AUG-2000; 2000US-224642P.  
 FR  
 XX  
 XX 19-OCT-2000; 2000US-241779P.  
 PR  
 XX  
 XX (ELIL ) LILLY & CO ELI.  
 PA  
 XX  
 XX Edmonds BT, Micanovic R, Ou W, Su EW, Tschang SR, Wang H;  
 PI  
 XX  
 XX WPI; 2002-304057/34.  
 DR  
 XX  
 XX N-PSDB; ABK62087.  
 DR  
 XX  
 XX Novel polypeptides and polynucleotides of secreted proteins useful for  
 PT treating various diseases such as multiple sclerosis, cancer,  
 PT autoimmune diseases, osteoporosis, Alzheimer's disease and Parkinson's  
 PT disease  
 PT  
 XX  
 XX Claim 9; Page 200-203; 235pp; English.  
 PS  
 XX  
 XX The invention relates to a novel human secreted polypeptide having  
 CC sequence 90% identical to the polypeptide sequences of LP105, LP061,  
 CC LP224, LP239(a), LP243(a), LP243(b), LP253, LP218, LP251(a),  
 CC LP252, LP239(b), LP223(a), LP255(a), LP244, LP186, LP251(b), LP255(b),  
 CC or LP223(b). Also included are the nucleic acids encoding the LP  
 CC proteins (including complement, fragments encoding mature forms of the  
 CC polypeptide or variant), a vector comprising the nucleic acid, a  
 CC host cell comprising the vector, the preparation of the protein,  
 CC an anti-LP antibody, ant/agonists of LP and anti-LP-encoding mRNA  
 CC ribozymes. The secreted protein or its agonist is useful in the  
 CC manufacture of a medicament for treating a mammal suffering from a  
 CC disease (and in diagnosis), condition or disorder associated with  
 CC aberrant levels of the secreted protein e.g. cancer, autoimmune diseases,  
 CC arthritis, osteoporosis, Alzheimer's disease, Parkinson's disease,  
 CC meningitis, encephalitis, neoplasia, trauma, ischaemia and infarction,  
 CC mania, stroke, cardiovascular disease, atherosclerosis, rheumatoid  
 CC arthritis, hypothyroidism, anaemia, sepsis, allergic responses, multiple  
 CC sclerosis, liver failure, haemorrhages, paranoia, obsessive compulsive  
 CC disorder, autism, panic disorder, learning disabilities, ALS  
 CC (amyotrophic lateral sclerosis) psychoses, disorders in feeding,  
 CC sleep patterns, balance, and perception, Th1-dependent insulinitis, adult  
 CC respiratory distress syndrome (ARDS). The secreted protein is further  
 CC useful for identifying compounds that bind to the secreted protein. The  
 CC present sequence represents a novel secreted protein of the invention.  
 XX  
 XX Sequence 713 AA;  
 SQ  
 Query Match 4.9%; Score 32; DB 23; Length 713;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 142 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 173  
 |||||  
 DB 153 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 184  
 |||||







[illegible]

associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus atrophy), skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used for fibromodulin, e.g. for reducing dermal scarring. PRO364 can be used as a target for anti-tumor drugs. PRO533 may be used in the treatment of Usher Syndrome or Anophia areata. PRO269 can be used as an anti-thrombotic agent; PRO287 polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PRO317 can be used for treating problems of the kidney, uterus, endometrium, blood vessels or related tissue, e.g. in the heart of genital tract.

XX	Sequence	640 AA:
SO		

Query Match 2.9%; Score 19; DB 20; Length 640;  
Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
Matches 19; Conservative 0; Mismatches 0; Indels

151 ELWLRNNPIESIPSYAFNR 169

152 ELWLRNNPIESIPSYAFNR 170

DESTROY 47

ADP24407

TD AAB24407 standard: Protein; 640 AA.

AAB24407:

07-NOV-2000 (first entry)

Human PR0331 protein sequence SEO ID NO:107.

Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation;  
diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;  
angiogenic; proliferative; cardiac; cardiovascular; antiatherosclerotic;  
cytostatic; gene therapy; vaccine

Homosapiens.

W020003221-A2

08-ATTN-2000

XX 30-NOV-1999. 99WQ-11828313.

XX  
00  
01 DEC 1988  
080156Z-0888

PR 01-DEC-1998;  
PR 16-DEC-1998;  
PR 98JIS-10-11-2850

18-DEC-1999, 0999-011555A  
12--JAN-1999: 99TIS-011555A  
PP

PR 08-MAR-1999; 99WO-US028

PR 12-MAR-1999: 99US-0123957.

PR 28-APR-1999; 99US-0131445.

PR 14-MAY-1999; 99US-0134287.

PR 02-JUN-1999; 99WO-US12252.

PR 23-JUN-1999; 99US-0141037-

PR 20-JUL-1999; 99US-0144758

PR 26-JUL-1999; 99US-0145698.

PR 01-SEP-1999;  
99WO-US20111

08-SBP-1959;  
PR  
06 SEP 70  
USZC0334

99WU-USZC0334.

[illegible]

PK  
13-SBF-1333;  
99WO-0321030  
99WO-11921547

FR 13-SEP-1999; 05-OCT-1999; 99WQ-11523089

FR 03-001-1551  
PR 29-001-1999 : 99US-0162506

XX  
XX

PA (GETH) GENENTECH INC.

XX  
PI Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Hillan KJ, Goddard A;



PI Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NF, Smith V;  
 PI Watanabe CK, Williams EM, Wood WI;  
 DR WPI; 2000-412154/35.  
 CX N-PSDB; AAA77596.  
 CX Nucleic acids encoding PRO polypeptides useful for preventing,  
 PT diagnosing and treating diagnosing a cardiovascular, endothelial or  
 PT angiogenic disorders in mammals -  
 CX Claim 72; Fig 40; 315pp; English.  
 CX The present invention describes nucleic acids encoding PRO polypeptides  
 CX useful for preventing, diagnosing and treating diagnosing a  
 CX cardiovascular, endothelial or angiogenic disorder in mammals by  
 CX modulating cell proliferation, angiogenesis and cardiovascularisation,  
 CX and for identifying agonists and antagonists of these processes. The  
 CX nucleic acids and the proteins they encode may be used in the  
 CX prevention, treatment and diagnosis of diseases associated with  
 CX inappropriate PRO expression such as cardiovascular, endothelial or  
 CX angiogenic disorders in mammals (e.g. atherosclerosis, cancers and  
 CX cardiac hypertrophy). For example, the nucleic acids (NCs) and vectors  
 CX containing them and the PRO polypeptide may be used to treat disorders  
 CX associated with decreased PRO expression. AAA77510 to AAA77721 and  
 CX AAB24388 to AAB24435 represent nucleotide and protein sequences used in  
 CX the exemplification of the present invention.  
 CX Sequence 640 AA;  
 SQ  
 Query Match 2.9%; Score 19; DB 21; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 151 ELMLRNPIESIPYAFNR 169  
 DB 152 ELMLRNPIESIPYAFNR 170  
 RESULT 48  
 ID AAY70673  
 ID AAY70673 standard; Protein; 640 AA.  
 CX:  
 AC AAY70673;  
 CX 18-JUL-2000 (first entry)  
 CX Human PRO331 protein.  
 CX PRO331; UNQ292; dermatological; immunosuppressive; antiinflammatory;  
 CX immunostimulant; antiasthmatic; antirheumatic; antiarthritis; virucide;  
 CX antiallergic; haemostatic; hepatotropic; antidiabetic; antianemic;  
 CX nephrotropic; neuroprotective; anticoagulant; immunologic disorder;  
 CX lung; pneumonia; skin; psoriasis; kidney; glomerulonephritis; arthritis;  
 CX spondyloarthritis; SLE; systemic lupus erythematosus; scleroderma;  
 CX idiopathic inflammatory myopathy; anaemia; thrombocytopenia; diabetes;  
 CX thyroiditis; Grave's disease; demyelinating disease; multiple sclerosis;  
 CX Crohn's disease; hepatobiliary disease; hepatitis; asthma; human;  
 CX Graft-versus-host-disease.  
 CX Homo sapiens.  
 CX Key Location/Qualifiers  
 FH Modified-site 40..46  
 FT /note= "N-myristoylation site"  
 FT Modified-site 73..79  
 FT /note= "N-myristoylation site"  
 FT Modified-site 118..124  
 FT /note= "N-myristoylation site"  
 FT Modified-site 183..187  
 FT /note= "cAMP and cGMP-dependent protein kinase  
 FT phosphorylation site"  
 FT Modified-site 191..197  
 FT /note= "N-myristoylation site"

FT Modified-site 228..234  
 FT /note= "N-myristoylation site"  
 FT Modified-site 237..243  
 FT /note= "N-myristoylation site"  
 FT Modified-site 268..272  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 278..282  
 FT /note= "N-glycosylation site"  
 FT Modified-site 364..368  
 FT /note= "N-glycosylation site"  
 FT Modified-site 390..394  
 FT /note= "N-glycosylation site"  
 FT Modified-site 391..397  
 FT /note= "N-myristoylation site"  
 FT Modified-site 412..416  
 FT /note= "N-glycosylation site"  
 FT Modified-site 415..419  
 FT /note= "N-glycosylation site"  
 FT Modified-site 417..421  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 422..428  
 FT /note= "N-myristoylation site"  
 FT Modified-site 433..439  
 FT /note= "N-myristoylation site"  
 FT Modified-site 434..438  
 FT /note= "N-glycosylation site"  
 FT Modified-site 442..446  
 FT /note= "N-glycosylation site"  
 FT Modified-site 465..469  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 488..492  
 FT /note= "N-glycosylation site"  
 FT Modified-site 531..537  
 FT /note= "N-myristoylation site"  
 FT Modified-site 579..583  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 606..610  
 FT /note= "N-glycosylation site"  
 FT Modified-site 620..624  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT  
 CX WO200015797-A2.  
 CX 23-MAR-2000.  
 CX 15-SEP-1999; 99WO-US21547.  
 CX 17-SEP-1998; 98US-0100858.  
 CX 17-SEP-1998; 98WO-US19437.  
 CX (GETH ) GENENTECH INC.  
 CX Pong S, Goddard A, Gurney AL, Tunas D, Wood WI;  
 CX WPI; 2000-271435/23.  
 CX N-PSDB; AAZ52207.  
 CX Composition for treatment and diagnosis of immune related diseases e.g.  
 CX Grave's disease comprises a PRO245, PRO217, PRO301, PRO266, PRO335,  
 CX PRO331 or PRO326 polypeptide or its agonists or antagonists (preferably  
 CX antibodies) -  
 CX Example 1; Fig 14; 201pp; English.  
 CX The present sequence is the human protein PRO331, encoded by UNQ292 cDNA,  
 CX designated as clone DNA40981. It is isolated from human foetal brain  
 CX tissue. Portions of PRO331 has homology to the LIG-1 protein.  
 CX It enhances or suppresses the infiltration of inflammatory cells into  
 CX tissues, proliferation of T-lymphocytes and modulates the immune  
 CX response. This sequence is useful for treatment of immune related  
 CX disorders, like SLE, rheumatoid/juvenile arthritis, spondyloarthritis,  
 CX systemic sclerosis (scleroderma), idiopathic inflammatory myopathies such  
 CX as dermatomyositis, Sjogren's syndrome, systemic vasculitis, sarcoidosis,



antibody.  
 XX Homo sapiens.  
 XX Key  
 FT Peptide  
 FT Location/Qualifiers  
 FT 1..44 /label= Signal\_peptide  
 FT 40..46 /note= "Glycine is N-myristoylated"  
 FT 45..640 /label= Mature\_PRO331  
 FT 73..79 /note= "Glycine is N-myristoylated"  
 FT 118..124 /note= "Glycine at 118 is N-myristoylated"  
 FT 183..187 /label= phosphorylation\_site  
 FT /note= "CAMP/GMP dependent protein kinase phosphorylation site"  
 FT 191..197 /note= "Glycine at 191 is N-myristoylated"  
 FT 228..234 /note= "Glycine is N-myristoylated"  
 FT 237..243 /note= "Glycine is N-myristoylated"  
 FT 278..282 /note= "Asn is N-glycosylated"  
 FT 364..368 /note= "Asn is N-glycosylated"  
 FT 390..394 /note= "Asn is N-glycosylated"  
 FT 391..397 /note= "Glycine at 391 is N-myristoylated"  
 FT 412..416 /note= "Asn is N-glycosylated"  
 FT 415..419 /note= "Asn is N-glycosylated"  
 FT 422..428 /note= "Glycine is N-myristoylated"  
 FT 433..439 /note= "Glycine is N-myristoylated"  
 FT 434..438 /note= "Asn is N-glycosylated"  
 FT 442..446 /note= "Asn is N-glycosylated"  
 FT 488..492 /note= "Asn is N-glycosylated"  
 FT 528..543 /label= Transmembrane\_domain  
 FT 531..537 /note= "Glycine is N-myristoylated"  
 FT 606..610 /note= "Asn is N-glycosylated"  
 XX WO200119991-A1.  
 XX 22-MAR-2001.  
 XX 20-MAR-2000; 2000WO-US07377.  
 XX 15-SEP-1999; 99WO-US21547.  
 XX (GETH ) GENENTECH INC.  
 XX Fong S, Goddard A, Gurney AL, Hillan KJ, Tumas D, Wood WI;  
 XX WPI: 2001-226923/23.  
 XX N-PSDB; AAS00162.  
 XX Composition for diagnosing and treating immune related diseases, e.g.  
 XX rheumatoid arthritis and diabetes mellitus, comprises a PRO  
 XX polypeptide, agonist, antagonist or fragment -

PS Claim 31; Fig 12; 138pp; English.  
 XX The sequence represents Human PRO331 (UNQ292), a protein involved in  
 CC the immune response. PRO polypeptides, and (ant)agonists to them, are  
 CC used in compositions for modulating infiltration of inflammatory cells  
 CC into a tissue, modulating an immune response and modulating proliferation  
 CC of T-lymphocytes in response to an antigen. Immune related diseases can  
 CC be treated with the compositions, such as, systemic lupus erythematosus,  
 CC rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis,  
 CC spondyloarthropathies, systemic sclerosis, idiopathic inflammatory  
 CC myopathies (e.g. polymyositis), Sjogren's syndrome, systemic vasculitis,  
 CC sarcoidosis, autoimmune haemolytic anaemia (e.g. immune pancytopenia),  
 CC autoimmune thrombocytopenia (e.g. idiopathic thrombocytopenic purpura),  
 CC thyroiditis (e.g. Grave's disease, Hashimoto's thyroiditis), diabetes  
 CC mellitus, immune-mediated renal disease (e.g. glomerulonephritis),  
 CC demyelinating diseases of the central and peripheral nervous systems e.g.  
 CC multiple sclerosis or Guillain-Barre syndrome, and chronic inflammatory  
 CC demyelinating polyneuropathy, hepatobiliary diseases such as infectious  
 CC hepatitis (hepatitis A, B, C, D, E and other non-hepatotropic viruses),  
 CC auto immune chronic active hepatitis, primary biliary cirrhosis,  
 CC granulomatous hepatitis, and sclerosing cholangitis, inflammatory bowel  
 CC disease (ulcerative colitis, Crohn's disease and Whipple's disease),  
 CC autoimmune or immune-mediated skin diseases (e.g. erythema  
 CC multiforme and psoriasis), asthma, allergic rhinitis, urticaria,  
 CC eosinophilic pneumonias, idiopathic pulmonary fibrosis, transplantation  
 CC associated diseases including graft-versus-host-disease and graft  
 CC rejection. PRO polypeptides can be used to diagnose immune related  
 CC diseases, to identify inhibitors, and to stimulate the proliferation of  
 CC T lymphocytes. Anti-PRO antibodies can be used to detect PRO and  
 CC in diagnosis. PRO polypeptides, antibodies and (ant)agonists can be used  
 CC in rational drug design.  
 XX Sequence 640 AA;  
 SQ Query Match 2.9%; Score 19; DB 22; Length 640;  
 Best Local Similarity 100.0%; Pred.No. 3.1e-09;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 151 ELWLRRNNPIESIPSYAFNR 169  
 DB 152 ELWLRRNNPIESIPSYAFNR 170  
 Search completed: February 5, 2004, 16:00:21  
 Job time : 52 secs

GenCore version 5.1.6  
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in on: February 5, 2004, 15:58:37 ; Search time 20 Seconds  
(without alignments)  
3139.907 Million cell updates/sec

title: US-09-989-279-229  
effect score: 653  
sequence: 1 MKLLQVTVHHTWNAILLP.....ISEPYIIQTHTRKQVETQI 653

oring table: OLIGO

sarched: 283308 seqs, 96168682 residues

ord size : 6

otal number of hits satisfying chosen parameters: 3447

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aximum DB seq length: 2000000000

ost-processing: Listing first 150 summaries

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1: pir1.\*  
2: pir2.\*  
3: pir3.\*  
4: pir4.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

result No.	Score	Query Match	Length	DB ID	Description
1	14	2.1	421	2	462266
2	9	1.4	256	2	J01144
3	8	1.2	122	2	T35702
4	8	1.2	124	2	G72693
5	8	1.2	130	2	T49245
6	8	1.2	256	2	A35340
7	8	1.2	335	2	A13621
8	8	1.2	439	1	A48099
9	8	1.2	439	2	I57561
10	8	1.2	440	2	I61183
11	8	1.2	447	2	T48172
12	8	1.2	547	2	B56573
13	8	1.2	611	2	A72393
14	8	1.2	631	2	C89243
15	8	1.2	631	2	T21471
16	8	1.2	693	2	T01122
17	8	1.2	837	2	D82796
18	8	1.2	878	2	C71305
19	8	1.2	890	2	T21000
20	8	1.2	926	2	A57072
21	8	1.2	1054	2	T30177
22	8	1.2	1111	2	A59000
23	8	1.2	2054	2	T07594
24	8	1.2	2638	1	A42545
25	7	1.1	40	1	FDI18G
26	7	1.1	45	2	A05163
27	7	1.1	66	2	T35489
28	7	1.1	88	2	A83643
29	7	1.1	90	4	S50928

30	7	1.1	92	2	B84396	hypothetical prote
31	7	1.1	94	2	S53365	mucin 5AC (clone C
32	7	1.1	98	2	S53367	mucin 5AC (clone M
33	7	1.1	100	2	S72607	hypothetical prote
34	7	1.1	101	2	D72719	probable transcrip
35	7	1.1	102	2	S72629	probable ribosomal
36	7	1.1	102	2	AH1779	ribosomal protein
37	7	1.1	102	2	A11403	ribosomal protein
38	7	1.1	102	2	H72624	hypothetical prote
39	7	1.1	109	2	R6DOP1	acidic ribosomal p
40	7	1.1	113	1	R6DOP1	chlorion protein sl
41	7	1.1	116	2	S08614	hypothetical prote
42	7	1.1	118	2	H72524	two component resp
43	7	1.1	119	2	AF3085	G-box binding fact
44	7	1.1	124	2	T03242	p2E40 protein - ba
45	7	1.1	129	2	T08174	ribosomal protein
46	7	1.1	130	2	S20945	hypothetical prote
47	7	1.1	130	2	B86213	photosystem II pro
48	7	1.1	133	2	S60662	photosystem II rea
49	7	1.1	133	2	A84710	hypothetical prote
50	7	1.1	133	2	D87690	sigma B factor reg
51	7	1.1	151	2	AB0331	hypothetical prote
52	7	1.1	156	2	E84230	transcription acti
53	7	1.1	162	2	AE0915	mucin 5AC - human
54	7	1.1	164	2	I53641	low temperature re
55	7	1.1	169	2	H84077	crossover junction
56	7	1.1	173	2	A83293	hypothetical prote
57	7	1.1	178	2	G87307	probable membrane
58	7	1.1	189	2	T02821	hypothetical prote
59	7	1.1	191	2	AD1933	imidazoleglycerol-
60	7	1.1	192	1	PS0007	Sua5/YciO/YrdC fam
61	7	1.1	199	2	H95117	prolactin - marble
62	7	1.1	200	2	S34604	probable bacitraci
63	7	1.1	201	1	T29447	hypothetical prote
64	7	1.1	202	2	B87342	hypothetical prote
65	7	1.1	202	2	CT1084	DNA polymerase III
66	7	1.1	202	2	AF2831	probable DNA polym
67	7	1.1	203	2	B97609	conserved hypotet
68	7	1.1	203	2	F97987	hypothetical prote
69	7	1.1	207	2	H75102	conserved hypotet
70	7	1.1	207	2	A69446	NADH2 dehydrogenas
71	7	1.1	208	2	T17087	hypothetical prote
72	7	1.1	213	2	G84828	ribosomal protein
73	7	1.1	214	1	JC4808	late expression fa
74	7	1.1	216	2	T30487	probable rna-bindi
75	7	1.1	217	2	T40730	L-rhamnose-binding
76	7	1.1	219	2	S46526	MADS box protein m
77	7	1.1	231	2	T14552	translation elonga
78	7	1.1	231	2	B82793	hypothetical prote
79	7	1.1	237	2	B59838	transcription regu
80	7	1.1	246	1	TU82PV	major tail protein
81	7	1.1	246	2	H90833	major tail protein
82	7	1.1	246	2	B87621	hypothetical prote
83	7	1.1	247	2	B70406	hypothetical prote
84	7	1.1	252	2	AH1000	phosphoglycolate p
85	7	1.1	254	2	F87292	conserved hypotet
86	7	1.1	256	2	B85691	probable tail comp
87	7	1.1	263	2	C87317	hypothetical prote
88	7	1.1	265	2	A32115	beta-ketoadipate s
89	7	1.1	265	2	C8A172	hypothetical prote
90	7	1.1	266	2	AC3110	creatinine amidohy
91	7	1.1	266	2	F64590	diaminopimelate ep
92	7	1.1	273	2	G71923	diaminopimelate ep
93	7	1.1	279	2	S53363	mucin 5AC (clone J
94	7	1.1	280	2	D69106	cdTP-4-dehydrotham
95	7	1.1	288	2	T50741	protoporphyrin IX
96	7	1.1	290	2	S33443	chlorophyll a/b-bi
97	7	1.1	292	2	AG2225	3-hydroxyacid dehy
98	7	1.1	302	2	B82968	probable transcrip
99	7	1.1	305	2	T29901	hypothetical prote
100	7	1.1	305	2	C83775	ABC transporter (A
101	7	1.1	311	2	S39661	menaquinone biosyn



```
;Accession: G72593
;Status: preliminary
;Molecule type: DNA
;Residues: 1-124 <RAW>
;Cross-references: DDBJ:AF000060; NID:G5104188; PID:BAA79951.1; PID:d1043737; PID:G5104188
;Experimental source: strain X1
;Genetics:
;Gene: APE0967

Query Match 1.2%; Score 8; DB 2; Length 124;
Best Local Similarity 100.0%; Pred. No. 6.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 581 AATATAPS 588
b 4 AATATAPS 11

RESULT 5
49245
cytoplasmic ribosomal protein S15a-like - Arabidopsis thaliana
;Alternate names: protein F12M12.10
;Species: Arabidopsis thaliana (mouse-ear cress)
;Date: 02-Jun-2000 #sequence_revision 02-Jun-2000 #text_change 09-Jun-2000
;Accession: T43245
;Jordan, N.; Bangert, S.; Wiedelmann, R.; Voss, H.; Unseid, M.; Mewes, H.W.; Rudd, S.;
submitted to the Protein Sequence Database, May 2000
;Reference number: Z55020
;Accession: T49245
;Status: preliminary
;Molecule type: DNA
;Residues: 1-130 <QOR>
;Cross-references: EMBL:AL355775; GSPDB:GN00063; ATSP:F12M12.10
;Experimental source: cultivar Columbia; BAC clone F12M12
;Genetics:
;Gene: ATSP:F12M12.10
;Map position: 3
;Introns: 45/1; 98/3
;Superfamily: Escherichia coli ribosomal protein S8

Query Match 1.2%; Score 8; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

AY 400 RISVLNDG 407
b 3 RISVLNDG 10

RESULT 6
A35340
H+-transporting two-sector ATPase (EC 3.6.3.14) chain b precursor, mitochondrial - rat
;Species: Rattus norvegicus (Norway rat)
;Date: 14-Sep-1990 #sequence_revision 14-Sep-1990 #text_change 03-Jun-2002
;Accession: A35340; D33160
;Tsutsumi, C.; Yoshihara, Y.; Osaka, F.; Yamada, F.; Tani, I.; Higuti, T.; Shimizu, M.;
Biochem. Biophys. Res. Commun. 169, 136-142, 1990
;Title: cDNA cloning and sequencing for the import precursor of subunit B in H+-ATP syn
;Reference number: A35340; MUID:90274656; PMID:2140936
;Accession: A35340
;Status: preliminary
;Molecule type: mRNA
;Residues: 1-256 <TSU>
;Cross-references: GB:M35052; NID:G207088; PID:AAA42187.1; PID:G207089
;Godinot, C.
submitted to the Protein Sequence Database, February 1991
;Reference number: A33160
;Accession: D33160
;Status: preliminary
;Molecule type: protein
;Residues: 'X', 44-52, 'X', 54-56, 'X', 58, 'X', 60-61 <GOD>
;Keywords: hydrolase; mitochondrion

;Accession: G72593
;Status: preliminary
;Molecule type: DNA
;Residues: 1-124 <RAW>
;Cross-references: DDBJ:AF000060; NID:G5104188; PID:BAA79951.1; PID:d1043737; PID:G5104188
;Experimental source: strain X1
;Genetics:
;Gene: APE0967

Query Match 1.2%; Score 8; DB 2; Length 256;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAATAAP 587
b 8 SAATAAP 15

RESULT 7
A13621
endo-type 6-aminohexanoate oligomer hydrolase [imported] - Brucella melitensis (strain 1
;Species: Brucella melitensis
;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2002
;Accession: A13621
;Ridivechio, V.G.; Kapatal, V.; Redkar, R.J.; Patra, G.; Muler, C.; Ios, T.; Ivanova,
; Mazur, M.; Goltzman, S.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess
Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002
;Title: The genome sequence of the facultative intracellular pathogen Brucella melitensis
;Reference number: AD3252; PMID:11756688
;Accession: A13621
;Status: preliminary
;Molecule type: DNA
;Residues: 1-335 <KUR>
;Cross-references: GB:AE08918; PID:AA154140.1; PID:G17985104; GSPDB:GN00191
;Experimental source: strain 16M
;Genetics:
;Gene: BME110898
;Map position: 11

Query Match 1.2%; Score 8; DB 2; Length 335;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 AATAAPSG 589
b 134 AATAAPSG 141

RESULT 8
A48099
transcription factor GATA-4, retinoic acid-inducible - mouse
;Species: Mus musculus (house mouse)
;Date: 21-Jan-1994 #sequence_revision 12-Jul-1996 #text_change 16-Jul-1999
;Accession: A48099
;Arceci, R.J.; King, A.A.; Simon, M.C.; Orkin, S.H.; Wilson, D.B.
Mol. Cell. Biol. 13, 2235-2245, 1993
;Title: Mouse GATA-4: a retinoic acid-inducible GATA-binding transcription factor expre
;Reference number: A48099; MUID:93204969; PMID:8455608
;Accession: A48099
;Molecule type: mRNA
;Residues: 1-439 <ARC>
;Cross-references: GB:M98339; NID:G293344; PID:AAA37662.1; PID:G293345
;Experimental source: embryo
;Note: sequence extracted from NCBI backbone (NCBI:127640, NCBIP:127641)
;Comment: This transcriptional activator is named for the core, GATA, of the nucleotide
;Superfamily: transcription factor GATA-4; GATA-type zinc finger homology
;Keywords: DNA binding; nucleus; transcription factor; transcription regulation; zinc f
F;212-265/Domain: GATA-type zinc finger homology <GZF1>
F;266-319/Domain: GATA-type zinc finger homology <GZF2>

Query Match 1.2%; Score 8; DB 1; Length 439;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
b 175 AAAASAGP 182

RESULT 9
157561
```

```

transcription factor GATA-4 - human
C:Species: Homo sapiens (man)
C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 17-Mar-1999
C:Accession: I57561; J04020
R:Yamagata, T.; Nishida, J.; Sakai, R.; Tanaka, H.; Hirano, N.; Mano, H.; Yaz
Mol. Cell. Biol. 15, 3830-3839, 1995
A:Title: Of the GATA-binding proteins, only GATA-4 selectively regulates the human inter
A:Reference number: I57561; MUID:95311982; PMID:7791790
A:Accession: I57561
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-439 <RES>
A:Cross-references: GB:S78666; NID:G1042085; PID:G1042086
R:Huang, W.Y.; Cukerman, B.; Liew, C.C.
Gene 155, 219-223, 1995
A:Title: Identification of a GATA motif in the cardiac alpha-myosin heavy-chain-encoding
A:Reference number: J04020; MUID:95237613; PMID:7721094
A:Accession: J04020
A:Molecule type: mRNA
A:Residues: 'MAANHGPPPCGAYQAGGPGFMHGAASS', 'PVYLPTRVPSSVLGLSLYQQGAGSAGG', 64-68, 'P', '
A:Cross-references: GB:I34357; NID:G508483
A:Experimental source: heart
C:Comment: this protein regulates a set of cardiac-specific genes and plays a crucial ro
C:Genetics:
A:Gene: GDB:GATA4
A:Cross-references: GDS:433278; OMIM:600576
A:Map position: 8p23.1-8p23.1
C:Superfamily: transcription factor GATA-4; GATA-type zinc finger homology
C:Keywords: DNA binding; transcription factor; zinc finger
F:211-264/Domain: GATA-type zinc finger homology <GZF1>
F:214-238/Region: zinc finger GATA motif
F:265-318/Domain: GATA-type zinc finger homology <GZF2>
F:268-292/Region: zinc finger GATA motif

Query Match 1.2%; Score 8; DB 2; Length 439;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 AAAASAGP 43
DB 173 AAAASAGP 180

RESULT 10
I61183
transcription factor GATA - rat
N:Alternate names: DNA binding protein
C:Species: Rattus norvegicus (Norway rat)
C>Date: 27-Feb-1997 #sequence_revision 27-Feb-1997 #text_change 08-Dec-2000
C:Accession: I61183
R:Tamura, S.; Wang, X.H.; Maeda, M.; Futai, M.
Proc. Natl. Acad. Sci. U.S.A. 90, 10876-10880, 1993
A:Title: Gastric DNA-binding proteins recognize upstream sequence motifs of parietal cel
A:Reference number: A49645; MUID:94068504; PMID:8248184
A:Accession: I61183
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-440 <TAM>
A:Cross-references: GB:I22761; NID:G437669; PID:AAA16159.1; PID:G437670
C:Genetics:
A:Gene: GATA-GT2
C:Superfamily: transcription factor GATA-4; GATA-type zinc finger homology
C:Keywords: zinc finger
F:213-266/Domain: GATA-type zinc finger homology <GZF1>
F:267-320/Domain: GATA-type zinc finger homology <GZF2>

Query Match 1.2%; Score 8; DB 2; Length 440;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
DB 176 AAAASAGP 183

RESULT 11
T48172
hypothetical protein F7A7.30 - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000
C:Accession: T48172
R:Bevan, M.; Terry, N.; Ardiles, W.; Buyssebaert, C.; Dasseville, R.; De Clerck, R.; De
ewes, H.W.; Rudd, S.; Lemcke, K.; Mayer, K.F.X.
submitted to the Protein Sequence Database, March 2000
A:Reference number: Z24487
A:Accession: T48172
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-447 <BEV>
A:Cross-references: EMBL:AL161946
A:Experimental source: Cultivar Columbia; BAC clone F7A7
C:Genetics:
A:Map position: 5
A:Introns: 34/2; 47/2; 88/3; 97/3; 121/2; 137/1; 163/2; 187/3; 217/3; 237/3; 275/3; 296,
A>Note: F7A7.30

Query Match 1.2%; Score 8; DB 2; Length 447;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 TSAAATAA 586
DB 107 TSAAATAA 114

RESULT 12
B56573
nuclear pore complex glycoprotein p62 - African clawed frog
C:Species: Xenopus laevis (African clawed frog)
C>Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 21-Jul-2000
C:Accession: B56573
R:Cordees, V.; Waizenegger, I.; Krohne, G.
Eur. J. Cell Biol. 55, 31-47, 1991
A:Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA clonin
A:Reference number: A56573; MUID:92007945; PMID:1915419
A:Accession: B56573
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-547 <COR>
A:Cross-references: GB:S59344; NID:G236262; PID:AA019954.1; PID:G236263
A>Note: sequence extracted from NCBI backbone (NCBI:59344, NCBI:59345)
C:Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C:Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 1.2%; Score 8; DB 2; Length 547;
Best Local Similarity 100.0%; Pred.No. 26;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 AATAAPSG 589
DB 34 AATAAPSG 41

RESULT 13
A72393
hypothetical protein TW0300 - Thermotoga maritima (strain MS88)
C:Species: Thermotoga maritima
C>Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 21-Jul-2000
C:Accession: A72393
R:Nelson, K.B.; Clayton, R.A.; Gill, S.R.; Gwinn, M.L.; Dodson, R.J.; Haft, D.H.; Hicke
Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillips, C.A.; Richardson, D.,
C.M.
Nature 399, 323-329, 1999
A:Title: Evidence for lateral gene transfer between Archaea and Bacteria from genome sec
A:Reference number: A72200; MUID:99287316; PMID:10360571
A:Accession: A72393

```

A:Gene: CESP:F28C1.3  
A:Map position: 5  
A:Introns: 154/3; 295/3; 339/3; 412/1; 445/3; 506/1; 631/1

Query Match 1.2%; Score 8; DS 2; Length 631;  
Best Local Similarity 100.0%; Pred. No. 29;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAS 40  
|||||  
DB 591 AATAAAS 598

RESULT 16  
T01122  
Probable serine/threonine protein kinase [imported] - Arabidopsis thaliana  
N/Alternate names: hypothetical protein F24L7.1; T21L14.21  
C/Species: Arabidopsis thaliana (mouse-ear cress)  
C/Date: 12-Feb-1999 #sequence\_revision 12-Feb-1999 #text\_change 16-Feb-2001  
C/Accession: T01122; T00783; C84738  
R/Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul  
submitted to the EMBL Data Library, December 1997  
A/Description: Arabidopsis thaliana chromosome II BAC T21L14 genomic sequence.  
A/Reference number: Z14209  
A/Accession: T01122  
A/Status: translated from GB/EMBL/DBDJ  
A/Molecule type: DNA  
A/Residues: 1-693 <ROU>  
A/Cross-references: EMBL:AC003033; NID:g2702261; PID:g2702277  
A/Experimental source: cultivar Columbia  
R/Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul  
submitted to the EMBL Data Library, February 1998  
A/Description: Arabidopsis thaliana chromosome II BAC F24L7 genomic sequence.  
A/Reference number: Z14204  
A/Accession: T00783  
A/Status: translated from GB/EMBL/DBDJ  
A/Molecule type: DNA  
A/Residues: 1-693 <ROW>  
A/Cross-references: EMBL:AC003974; NID:g2914688; PID:g2914689  
A/Experimental source: cultivar Columbia  
R/Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;  
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;  
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.  
Nature 402, 761-768, 1999  
A/Date: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.  
A/Reference number: A84420; MUID:20083487; PMID:10617197  
A/Accession: C84738  
A/Status: preliminary  
A/Molecule type: DNA  
A/Residues: 1-693 <STO>  
A/Cross-references: GB:AE0002093; NID:g2702277; PIDN:AAB91980.1; GSPDB:GN00139  
C/Genetics:  
A/Gene: At2g32850; T21L14.21; F24L7.1  
A/Map position: 2  
A:Introns: 156/2; 211/3; 228/3; 312/1  
C/Superfamily: yeast hypothetical protein YNL020c; protein kinase homology

Query Match 1.2%; Score 8; DS 2; Length 693;  
Best Local Similarity 100.0%; Pred. No. 32;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAT 584  
|||||  
DB 647 AATSAAT 654

RESULT 17  
D82796  
conserved hypothetical protein XF0521 [imported] - Xylella fastidiosa (strain 9a5c)  
C/Species: Xylella fastidiosa  
C/Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 20-Aug-2000  
C/Accession: D82796  
R/anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen



ature 406, 151-157, 2000

Title: The genome sequence of the plant pathogen *Xylella fastidiosa*.

Reference number: A83515; MID:20365717; PMID:10910347

Note: for a complete list of authors see reference number A59328 below

Accession: D82796

Status: preliminary

Molecule type: DNA

Residues: 1-837 <SIM>

Cross-references: GB:AE003900; GB:AE003849; MID:g9105366; PIDN:AAF83331.1; GSPDB:GN001

Experimental source: strain gasc

Simpson, A.J.G.; Reinach, P.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvares, R.; A

riões, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carreir, H

s-Neto, E.; Docena, C.; El-Dorri, H.; Facincani, A.P.; Ferreira, A.J.S.

submitted to GenBank, June 2000

Authors: Ferreira, V.C.A.; Ferro, J.A.; França, S.C.; Franco, M.C.; Frohm

D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laiz

hado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.P.; Marino, C.L.; Marques, M.V.; Martins, E

F.G.; Martins, B.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.

Nunes, L.R.; Oliveira, M.A.; de Oliveira, R.C.; Palmieri, D.A

drigues, V.; Rosa, A.J. de S.; de Rosa Jr., V.B.; de Sa, R.G.; Santelli, R.V.; Sawasak

Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silv

1.; Tshunako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z

Reference number: A59328

Contents: annotation

Genetics:

Gene: XP0521

Query Match 1.2%; Score 8; DB 2; Length 837;

Best Local Similarity 100.0%; Pred. No. 38;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

33 AATAAAS 40

445 AATAAAS 452

RESULT 18

C71305

leucine-tRNA ligase (EC 6.1.1.4) - syphilis spirochete

Species: Treponema pallidum subsp. pallidum (syphilis spirochete)

Date: 24-Jul-1998 #sequence\_revision 24-Jul-1998 #text\_change 03-Jun-2002

Accession: C71305

Praser, C.M.; Norris, S.J.; Weinstock, G.M.; White, O.; Sutton, G.G.; Dodson, R.; Gwin

son, J.; Khalak, H.; Richardson, D.; Howell, J.K.; Chidambaram, M.; Utterback, T.; McDo

they, L.; Weidman, J.; Smith, H.O.; Venter, J.C.

Science 281, 375-388, 1998

Title: Complete genome sequence of Treponema pallidum, the syphilis spirochete.

Reference number: A71250; MID:98332770; PMID:9665876

Accession: C71305

Status: preliminary; nucleic acid sequence not shown; translation not shown

Molecule type: DNA

Residues: 1-878 <COL>

Cross-references: GB:AE001234; GB:AE000520; MID:g3322881; PIDN:AA065562.1; PID:g332288

Experimental source: strain Nichols

Genetics:

Gene: TP0586

Superfamily: leucine-tRNA ligase

Keywords: aminoacyl-tRNA synthetase; ligase; protein biosynthesis

Query Match 1.2%; Score 8; DB 2; Length 878;

Best Local Similarity 100.0%; Pred. No. 40;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

117 GAFNGLAS 124

404 GAFNGLAS 411

RESULT 19

T21000

Hypothetical protein F15H10.4 - Caenorhabditis elegans

Species: Caenorhabditis elegans

Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999

Cross-references: T21000

Perks, M.

submitted to the EMBL Data Library, June 1996

Reference number: Z19356

Accession: T21000

Status: preliminary; translated from GB/EMBL/DD8V

Molecule type: DNA

Residues: 1-690 <WIL>

Cross-references: EMBL:Z73972; PIDN:CAA98263.1; GSPDB:GN00023; CESP:F15H10.4

Experimental source: clone F15H10

Genetics:

Gene: CESP:F15H10.4

Map position: 5

Introns: 18/2; 54/1; 84/1; 141/2; 174/1; 205/1; 274/1; 436/1; 470/3; 510/3; 624

Query Match 1.2%; Score 8; DB 2; Length 890;

Best Local Similarity 100.0%; Pred. No. 40;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

17 ILLPFVYL 24

656 ILLPFVYL 663

RESULT 20

A57072

disease resistance protein RPM1 - Arabidopsis thaliana

Species: Arabidopsis thaliana (mouse-ear cress)

Date: 03-Oct-1995 #sequence\_revision 03-Oct-1995 #text\_change 31-Mar-2000

Accession: A57072

Grant, M.R.; Godiard, L.; Straube, E.; Ashfield, T.; Lewald, J.; Sattler, A.; Innes, I

Science 269, 843-846, 1995

Title: Structure of the Arabidopsis RPM1 gene enabling dual specificity disease resist

Reference number: A57072; MID:95355795; PMID:7638602

Accession: A57072

Status: preliminary; nucleic acid sequence not shown

Molecule type: DNA

Residues: 1-926 <GRA>

Cross-references: GB:X87851; MID:g963016; PIDN:CAA61131.1; PID:g963017

Genetics:

Gene: RPM1

Superfamily: disease resistance protein RPS2; leucine-rich alpha-2-glycoprotein repeat

F582-604/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR1>

F605-627/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR2>

F628-650/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR3>

Query Match 1.2%; Score 8; DB 2; Length 926;

Best Local Similarity 100.0%; Pred. No. 42;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

196 FNLYLNL 203

604 FNLYLNL 611

RESULT 21

T30177

Cytoskeleton assembly control protein homolog Sla2 - yeast (Yarrowia lipolytica)

Species: Yarrowia lipolytica, Candida lipolytica

Date: 22-Oct-1999 #sequence\_revision 22-Oct-1999 #text\_change 22-Oct-1999

Accession: T30177

Gaumann, U.; Schlabbel, M.B.; Kurischko, C.

submitted to the EMBL Data Library, July 1996

Description: Sla2 homologue of Yarrowia lipolytica.

Reference number: Z20763

Accession: T30177

Status: preliminary; translated from GB/EMBL/DD8V

Molecule type: DNA

Residues: 1-1054 <GAU>

Cross-references: EMBL:U65409; MID:g93978133; PID:g93978134; PIDN:AA083184.1

Experimental source: strain W29

Genetics:

Gene: SLA2

Map position: III, adjacent to MATA

Query Match 1.2%; Score 8; DB 2; Length 1054;  
 Best Local Similarity 100.0%; Pred. No. 47;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 34 AIAAASA 41  
 |||||  
 b 819 AIAAASA 826  
 |||||  
 RESULT 22  
 59000  
 ;Species: Mus musculus {house mouse}  
 ;Date: 03-Aug-2001 #sequence\_revision 03-Aug-2001 #text\_change 03-Aug-2001  
 ;Accession: A59000  
 ;Long, Z.B.; Nelson, L.M.  
 ;ndocrinology 140, 3720-3726, 1999  
 ;Title: A mouse gene encoding an oocyte antigen associated with autoimmune premature ov  
 ;Reference number: A59000; MUID:99350614; PMID:1043322  
 ;Accession: A59000  
 ;Status: preliminary  
 ;Molecule type: DNA  
 ;Residues: 1-1111 <KUR>  
 ;Cross-references: GB:AF074018; MID:G5802697; PIDN:AAD51762.1; PID:G5802698  
 ;Genetics:  
 ;Gene: Mater

Query Match 1.2%; Score 8; DB 2; Length 1111;  
 Best Local Similarity 100.0%; Pred. No. 49;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 197 NLKYLNLG 204  
 |||||  
 b 749 NLKYLNLG 756  
 |||||  
 RESULT 23  
 07584  
 ;Species: chloroplast Pinus thunbergiana (Japanese black pine)  
 ;Date: 14-May-1999 #sequence\_revision 14-May-1999 #text\_change 18-Aug-2000  
 ;Accession: T07584  
 ;Wakasugi, T.; Tsudzuki, J.; Ito, S.; Nakashima, K.; Tsudzuki, T.; Sugiura, M.  
 ;roc. Natl. Acad. Sci. U.S.A. 91, 9794-9796, 1994  
 ;Title: Loss of all nch genes as determined by sequencing the entire chloroplast genome  
 ;Reference number: Z16030; MUID:95024047; PMID:7937893  
 ;Accession: T07584  
 ;Status: preliminary; translated from GB/EMBL/DDBY  
 ;Molecule type: DNA  
 ;Residues: 1-2054 <WAK>  
 ;Cross-references: EMBL:DI7510; MID:G529643; PIDN:BA04460.1; PID:gl262745  
 ;Genetics:  
 ;Genome: chloroplast  
 ;Keywords: chloroplast

Query Match 1.2%; Score 8; DB 2; Length 2054;  
 Best Local Similarity 100.0%; Pred. No. 86;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 275 HNNLSSLP 282  
 |||||  
 b 819 HNNLSSLP 826  
 |||||  
 RESULT 24  
 42545  
 ;Genome polyprotein - Langat virus (strain TP21) (fragment)  
 ;Contains: nonstructural protein NS1; nonstructural protein NS2a; nonstructural protein  
 NS5  
 ;Species: Langat virus  
 ;Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 19-Jan-2001

C;Accession: A42545; A61409; C61409  
 R;Iacono-Connors, L.C.; Schmaljohn, C.S.  
 Virology 188, 875-880, 1992  
 ;Title: Cloning and sequence analysis of the genes encoding the nonstructural proteins  
 A;Reference number: A42545; MUID:92263794; PMID:1316684  
 ;Accession: A42545  
 A;Molecule type: genomic RNA  
 A;Residues: 1-2638 <IAC>  
 A;Cross-references: GB:S35365; MID:G249315; PIDN:AAB22165.1; PID:G249316  
 R;Guirakhoo, F.; Heinz, F.X.; Mandl, C.W.; Holzmann, H.; Kunz, C.; Gresikova, M.  
 J. Gen. Virol. 72, 333-338, 1991  
 ;Title: The relationship between the flaviviruses Stalica and Langat as revealed by mon  
 A;Reference number: A61409; MUID:91132129; PMID:1847173  
 ;Accession: A61409  
 A;Status: not compared with conceptual translation  
 A;Molecule type: genomic RNA  
 A;Residues: 319-337 <GUI>  
 ;Accession: C61409  
 A;Status: not compared with conceptual translation  
 A;Molecule type: genomic RNA  
 A;Residues: 877-994 <GU2>  
 C;Superfamily: yellow fever virus genome polyprotein  
 C;Keywords: glycoprotein; nonstructural protein NS1 #status predicted <NS1>  
 P;1-352/Product: nonstructural protein NS2a #status predicted <NS2A>  
 P;353-582/Product: nonstructural protein NS3 #status predicted <NS3>  
 P;583-713/Product: nonstructural protein NS3b #status predicted <NS3b>  
 P;714-1334/Product: nonstructural protein NS4 #status predicted <NS4>  
 P;912-919/Region: nucleotide-binding motif A (P-loop)  
 P;1335-1483/Product: nonstructural protein NS4a #status predicted <NS4a>  
 P;1484-1735/Product: nonstructural protein NS4b #status predicted <NS4b>  
 P;1736-2638/Product: nonstructural protein NS5 #status predicted <NS5>  
 P;85,207,223,873,1212,1571,1950/Binding site: carbohydrate (Asn) (covalent) #status pred

Query Match 1.2%; Score 8; DB 1; Length 2638;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 267 SLVELMLA 274  
 |||||  
 DB 71 SLVELMLA 78  
 |||||  
 RESULT 25  
 FDF18G  
 antifreeze protein GS-8 - grubby sculpin  
 C;Species: Myoxocephalus aeneus (grubby sculpin)  
 C;Date: 31-Dec-1990 #sequence\_revision 31-Dec-1990 #text\_change 24-Nov-1999  
 C;Accession: S07046  
 R;Chakrabarty, A.; Hew, C.L.; Shears, M.; Fletcher, G.  
 Can. J. Zool. 66, 403-408, 1988  
 A;Title: Primary structures of the alanine-rich antifreeze polypeptides from grubby scul  
 A;Reference number: S06417  
 A;Accession: S07046  
 A;Molecule type: protein  
 A;Residues: 1-40 <CHA>  
 C;Superfamily: antifreeze protein  
 C;Keywords: antifreeze; blocked amino end  
 P;1/Modified site: blocked amino end (Met) #status experimental

Query Match 1.1%; Score 7; DB 1; Length 40;  
 Best Local Similarity 100.0%; Pred. No. 23;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 33 AAIAAAA 39  
 |||||  
 DB 33 AAIAAAA 39  
 |||||  
 RESULT 26  
 A05163  
 antifreeze protein SS-8 - shorthorn sculpin  
 C;Species: Myoxocephalus scorpius (shorthorn sculpin, daddy sculpin)  
 C;Date: 05-Jun-1987 #sequence\_revision 05-Jun-1987 #text\_change 24-Nov-1999

C;Accession: A05163  
 R;Hew, C.L.; Joshi, S.; Wang, N.C.; Kao, M.H.; Ananthanarayanan, V.S.  
 Eur. J. Biochem. 153, 167-172, 1985  
 A;Title: Structures of shorthorn sculpin antifreeze polypeptides.  
 A;Reference number: A91150; MUID:85285003; PMID:4029130  
 A;Accession: A05163  
 A;Molecule type: protein  
 A;Residues: 1-45 <HEW>  
 C;Superfamily: antifreeze protein  
 C;Keywords: antifreeze; blocked amino end; plasma  
 F;9-45/Region: alanine-rich  
 F;1/Modified site: blocked amino end (Met) #status experimental

Query Match 1.1%; Score 7; DB 2; Length 45;  
 Best Local Similarity 100.0%; Pred. No. 26;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAA 39  
 |||||  
 Db 36 AATAAAA 42

RESULT 27

T35489

hypothetical protein SC6E10.02 - Streptomyces coelicolor

C;Species: Streptomyces coelicolor

C;Date: 05-Nov-1999 #sequence\_revision 05-Nov-1999 #text\_change 05-Nov-1999

C;Accession: T35489

R;Seeger, K.; Harris, D.; James, K.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.

submitted to the EMBL Data Library, August 1999

A;Reference number: Z21580

A;Accession: T35489

A;Status: Preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-66 <SEE>

A;Cross-references: EMBL:AL103661; PIDN: CAB51356.1; GSPDB: GN00070; SCODEB: SC6E10.02

A;Experimental source: strain A3(2)

C;Genetics:

A;Gene: SCODEB:SC6E10.02

Query Match 1.1%; Score 7; DB 2; Length 66;  
 Best Local Similarity 100.0%; Pred. No. 37;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 584 TAAPSGV 590  
 |||||  
 Db 26 TAAPSGV 32

RESULT 28

A83643

hypothetical protein PA0012 [imported] - Pseudomonas aeruginosa (strain PA01)

C;Species: Pseudomonas aeruginosa

C;Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 31-Dec-2000

C;Accession: A83643

R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrenner, P.; Hickey, M.J.; B

adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,

.; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho

A;Reference number: A82950; MUID:20437337; PMID:10984043

A;Accession: A83643

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-88 <STO>

A;Cross-references: GB:AE004441; GB:AE004091; NID:g9945828; PIDN:AG03402.1; GSPDB:GN001

A;Experimental source: strain PA01

C;Genetics:

A;Gene: PA0012

Query Match 1.1%; Score 7; DB 2; Length 88;  
 Best Local Similarity 100.0%; Pred. No. 48;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 416 LSDTGVY 422  
 |||||  
 Db 33 LSDTGVY 39

RESULT 29

S50928

hypothetical protein YN9646.12c - yeast (Saccharomyces cerevisiae)

C;Species: Saccharomyces cerevisiae

C;Date: 10-Feb-1995 #sequence\_revision 05-Sep-1996 #text\_change 20-Oct-2000

C;Accession: S50928

R;Pearson, D.; Bowman, S.

submitted to the EMBL Data Library, January 1995

A;Reference number: S50917

A;Accession: S50928

A;Status: conceptual translation of pseudogene

A;Molecule type: DNA

A;Residues: 1-90 <PEA>

A;Cross-references: EMBL:247815; NID:g542280; PIDN:CAA87821.1; PID:g642292

C;Comment: There is no evidence that this sequence is expressed.

C;Genetics:

A;Map position: 13R

C;Keywords: pseudogene

Query Match 1.1%; Score 7; DB 4; Length 90;  
 Best Local Similarity 100.0%; Pred. No. 49;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 284 DLFTPLR 290  
 |||||  
 Db 24 DLFTPLR 30

RESULT 30

B84396

hypothetical protein Vng2456c [imported] - Halobacterium sp. NRC-1

C;Species: Halobacterium sp. NRC-1

C;Date: 02-Feb-2001 #sequence\_revision 02-Feb-2001 #text\_change 02-Feb-2001

C;Accession: B84396

R;Ng, W.V.; Kennedy, S.P.; Mahairas, G.G.; Berquist, B.; Pan, M.; Shukla, H.D.; Lasky, J.

; Leitthauer, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, D.W.; Maddocks, D.G.; Jabl

Jung, K.H.; Alam, M.; Freitas, T.

Proc. Natl. Acad. Sci. U.S.A. 97, 12176-12181, 2000

A;Authors: Hou, S.; Daniels, C.J.; Dennis, P.P.; Omar, A.D.; Ebhardt, H.; Lowe, T.M.; L

A;Title: Genome sequence of Halobacterium species NRC-1

A;Reference number: A84160; MUID:20504483; PMID:11016950

A;Accession: B84396

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-92 <STO>

A;Cross-references: GB:AE004437; NID:g10581859; PIDN:AG20534.1; GSPDB:GN00138

C;Genetics:

A;Gene: VNG2456C

Query Match 1.1%; Score 7; DB 2; Length 92;  
 Best Local Similarity 100.0%; Pred. No. 50;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 534 VAVTLIA 540  
 |||||  
 Db 47 VAVTLIA 53

RESULT 31

S53365

mucin SAC (clone CEL2) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 15-Jul-1995 #sequence\_revision 01-Sep-1995 #text\_change 08-Oct-1999

C;Accession: S53365

R;Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buissine, M.P.; Gallegue

Biochem. J. 305, 211-219, 1995

A;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich dom

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;Reference number: S53361; MUID:95126907; PMID:7826332
;Accession: S53365
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: DNA
;Residues: 1-94 <GUY>
;Cross-references: EMBL:234276; NID:G563372; PIDN:CAA84030.1; PID:G563373
;Experimental source: clone CEL2
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1994
;Genetics:
;Gene: GDB:MUC5AC
;Cross-references: GDB:454136; OMIM:158373
;Map position: lp15.5-1p15.5
;Keywords: glycoprotein; tandem repeat

Query Match 1.1%; Score 7; DB 2; Length 94;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 30 PVPTTST 36

RESULT 32
;Species: Sac (clone MAR11) - human (fragment)
;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 08-Oct-1999
;Accession: S53367
;Experimental source: Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buisine, M.P.; Gallegue-
;Biochem. J. 305, 211-219, 1995
;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich doma
;Reference number: S53361; MUID:95126907; PMID:7826332
;Accession: S53367
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: mRNA
;Residues: 1-98 <GUY>
;Cross-references: EMBL:234282; NID:G563384; PIDN:CAA84036.1; PID:G563385
;Experimental source: Clone MAR11
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1994
;Genetics:
;Gene: GDB:MUC5AC
;Cross-references: GDB:454136; OMIM:158373
;Map position: lp15.5-1p15.5
;Keywords: glycoprotein; tandem repeat

Query Match 1.1%; Score 7; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 72 PVPTTST 78

RESULT 33
;Species: Mycobacterium leprae
;Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 28-Jul-2000
;Accession: S72607
;Experimental source: Smith, D.R.; Robison, K.
;Submitted to the EMBL Data Library, November 1993
;Reference number: S72580
;Accession: S72607
;Status: preliminary
;Molecule type: DNA
;Residues: 1-100 <SMI>
;Cross-references: EMBL:U00016; NID:G466961; PIDN:AAA17175.1; PID:G466989
;Genetics:
;Start codon: GTG
;Superfamily: Mycobacterium leprae hypothetical protein B1937_F3_110

Query Match 1.1%; Score 7; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAA 583
|||||
DB 24 AATSAAA 30

RESULT 34
;Species: Aeropyrum pernix
;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 15-Sep-2000
;Accession: D72719
;Experimental source: R.; Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah
;DNA Res. 6, 83-101, 1999
;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr
;Reference number: A72450; MUID:99310339; PMID:10382966
;Accession: D72719
;Status: preliminary
;Molecule type: DNA
;Residues: 1-101 <KAW>
;Cross-references: DDBJ:AP000059; NID:G5103911; PIDN:BAA79248.1; PID:dl043034; PID:G510
;Experimental source: strain K1
;Genetics:
;Gene: AP02093
;Superfamily: Aeropyrum pernix probable transcription regulator APE0293

Query Match 1.1%; Score 7; DB 2; Length 101;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 98 LHHLEVL 104
|||||
DB 54 LHHLEVL 60

RESULT 35
;Species: Planobispora rosea
;Date: 24-Oct-1998 #sequence_revision 24-Oct-1998 #text_change 21-Jul-2000
;Accession: S72629
;Experimental source: R.; Socio, M.; Amati, G.; Cappellano, C.; Sarubbi, E.; Monti, F.; Donadio, S.
;Mol. Microbiol. 22, 43-51, 1996
;Title: An elongation factor Tu (EF-Tu) resistant to the EF-Tu inhibitor GE2270 in the
;Reference number: S72627; MUID:97055420; PMID:8899707
;Accession: S72629
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: DNA
;Residues: 1-102 <SOS>
;Cross-references: EMBL:X98830; NID:G1679857; PIDN:CAA67346.1; PID:G1679860
;Experimental source: strain ATCC 53733
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
;Genetics:
;Gene: rpsJ
;Superfamily: Escherichia coli ribosomal protein S10
;Keywords: protein biosynthesis; ribosome

Query Match 1.1%; Score 7; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMLDL 178
|||||
DB 86 SLMLDL 92

RESULT 36
;Species: Listeria innocua (strain Clip11262)
;Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 28-Jul-2000
;Accession: S72607
;Experimental source: Smith, D.R.; Robison, K.
;Submitted to the EMBL Data Library, November 1993
;Reference number: S72580
;Accession: S72607
;Status: preliminary
;Molecule type: DNA
;Residues: 1-100 <SMI>
;Cross-references: EMBL:U00016; NID:G466961; PIDN:AAA17175.1; PID:G466989
;Genetics:
;Start codon: GTG
;Superfamily: Mycobacterium leprae hypothetical protein B1937_F3_110

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C;Species: *Listeria innocua*  
 C;Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 14-Dec-2001  
 A;Accession: AH1779  
 A;Status: preliminary  
 A;Molecule type: DNA  
 R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloesker  
 D.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.  
 D.; Jones, L.M.; Karst, U.  
 Science 294, 849-852, 2001  
 A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma  
 ok, C.; Schluter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland,  
 A;Title: Comparative Genomics of *Listeria* species.  
 A;Reference number: AB1077; PMID:11679669  
 A;Accession: AH1779  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-102 <GLA>  
 A;Cross-references: GB:AL592022; PIDN:CA398008.1; PID:g16415318; GSPDB:GN00178  
 A;Experimental source: strain C1p11262  
 C;Genetics:  
 A;Gene: rpsJ  
 C;Superfamily: Escherichia coli ribosomal protein S10

Query Match 1.1%; Score 7; DB 2; Length 102;  
 Best Local Similarity 100.0%; Pred. No. 55;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMRDL 178  
 DB 86 SLMRDL 92

RESULT 37  
 AH1403  
 ribosomal protein S10 [imported] - *Listeria monocytogenes* (strain EGD-e)  
 C;Species: *Listeria monocytogenes*  
 C;Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 14-Dec-2001  
 A;Accession: AH1403  
 R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloesker  
 D.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.  
 D.; Jones, L.M.; Karst, U.  
 Science 294, 849-852, 2001  
 A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma  
 ok, C.; Schluter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland,  
 A;Title: Comparative Genomics of *Listeria* species.  
 A;Reference number: AB1077; PMID:11679669  
 A;Accession: AH1403  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-102 <GLA>  
 A;Cross-references: GB:NC\_003210; PIDN:CAD00711.1; PID:g16412121; GSPDB:GN00177  
 A;Experimental source: strain EGD-e  
 C;Genetics:  
 A;Gene: rpsJ  
 C;Superfamily: Escherichia coli ribosomal protein S10

Query Match 1.1%; Score 7; DB 2; Length 102;  
 Best Local Similarity 100.0%; Pred. No. 55;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMRDL 178  
 DB 86 SLMRDL 92

RESULT 38  
 H72624  
 hypothetical protein APE1456 - *Aeropyrum pernix* (strain K1)  
 C;Species: *Aeropyrum pernix*  
 C;Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 09-Jun-2000  
 A;Accession: H72624  
 R;Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah  
 awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K  
 DNA Res. 6, 83-101, 1999  
 A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, *Aeropyr*

A;Reference number: A72450; PMID:99310339; PMID:10362966  
 A;Accession: H72624  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-109 <KAW>  
 A;Cross-references: DBJ:AP000061; NID:G5104821; PIDN:BAA80454.1; PID:d1044240; PID:G51  
 C;Genetics:  
 A;Experimental source: strain K1  
 C;Superfamily: *Aeropyrum pernix* hypothetical protein APE1456

Query Match 1.1%; Score 7; DB 2; Length 109;  
 Best Local Similarity 100.0%; Pred. No. 58;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 AIAAAS 40  
 DB 10 AIAAAS 16

RESULT 39  
 R6DOPI  
 acidic ribosomal protein P1 - slime mold (*Dictyostelium discoideum*)  
 N;Alternate names: ribosomal phosphoprotein P1  
 C;Species: *Dictyostelium discoideum*  
 C;Date: 31-Dec-1992 #sequence\_revision 31-Dec-1992 #text\_change 22-Jun-1999  
 A;Accession: S14013  
 R;Prieto, J.; Candel, E.; Coloma, A.  
 Nucleic Acids Res. 19, 1340, 1991  
 A;Title: Nucleotide sequence of a cDNA encoding ribosomal acidic phosphoprotein P1 from  
 A;Reference number: S14013; PMID:91232920; PMID:2030950  
 A;Accession: S14013  
 A;Status: nucleic acid sequence not shown; translation not shown  
 A;Molecule type: mRNA  
 A;Residues: 1-113 <PRI>  
 A;Cross-references: EMBL:X56193; NID:G7338; PIDN:CAA39656.1; PID:G7339  
 A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1990  
 C;Superfamily: rat acidic ribosomal protein P1  
 C;Keywords: phosphoprotein; protein biosynthesis; ribosome  
 F;70-89/Region: alanine-rich

Query Match 1.1%; Score 7; DB 1; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 60;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAA 583  
 DB 78 AATSAA 84

RESULT 40  
 S06614  
 chorion protein s15 - fruit fly (*Drosophila virilis*)  
 C;Species: *Drosophila virilis*  
 C;Date: 07-Sep-1990 #sequence\_revision 07-Sep-1990 #text\_change 24-Sep-1998  
 A;Accession: S06614  
 R;Martinez-Cruzado, J.C.; Swimmer, C.; Penner, M.G.; Kafatos, F.C.  
 Genetics 119, 663-677, 1988  
 A;Title: Evolution of the autosomal chorion locus in *Drosophila*. I. General organization  
 A;Reference number: S06612; PMID:88297142; PMID:3136055  
 A;Accession: S06614  
 A;Molecule type: DNA  
 A;Residues: 1-116 <MAR>  
 A;Cross-references: GB:X53421; EMBL:X12636; NID:99164; PID:99166  
 C;Genetics:  
 A;Gene: s15-1  
 A;Cross-references: FlyBase:FBgn0013068  
 A;Map position: 3 34D-E  
 A;Introns: 4/3

Query Match 1.1%; Score 7; DB 2; Length 116;  
 Best Local Similarity 100.0%; Pred. No. 62;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

C;Date: 24-Mar-1999 #sequence\_revision 24-Mar-1999 #text\_change 21-Jul-2000

C;Accession: T03242

R;Nantel, A.; Quatrano, R.S.

J. Biol. Chem. 271, 31296-31305, 1996

A;Title: Characterization of three rice basic/leucine zipper factors, including two inh

A;Reference number: Z14856; MUID:97094901; PMID:8940135

A;Accession: T03242

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-124 <NAN>

A;Cross-references: EMBL:U04296; NID:G435943; PIDN:AA49557.1; PID:G435944

A;Experimental source: cultivar Nipponbare

C;Genetics:

A;Note: OSZIP-2a

C;Keywords: DNA binding; leucine zipper; transcription regulation

Query Match 1.1%; Score 7; DB 2; Length 124;

Best Local Similarity 100.0%; Pred. No. 65;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AAATAAP 587

DB 36 AAATAAP 42

RESULT 44

T06174

p2E40 protein - barley (fragment)

C;Species: Hordeum vulgare (barley)

C;Date: 30-Apr-1999 #sequence\_revision 30-Apr-1999 #text\_change 11-May-2000

C;Accession: T06174

R;Smith, L.M.; Handley, J.; Li, Y.; Martin, H.; Donovan, L.; Bowles, D.J.

Plant Mol. Biol. 20, 255-266, 1992

A;Title: Temporal and spatial regulation of a novel gene in barley embryos.

A;Reference number: Z15509; MUID:93004478; PMID:1391769

A;Accession: T06174

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-129 <SMI>

A;Cross-references: EMBL:X68600; NID:G296593; PIDN:CAA48592.1; PID:G296594

A;Experimental source: cv. Igri, embryo

C;Genetics:

A;Note: p2E40

Query Match 1.1%; Score 7; DB 2; Length 129;

Best Local Similarity 100.0%; Pred. No. 68;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAG 42

DB 13 AAAASAG 19

RESULT 45

S20945

ribosomal protein S15a - rape

C;Species: Brassica napus (rape)

C;Date: 03-Feb-1994 #sequence\_revision 03-Feb-1994 #text\_change 13-Aug-1999

C;Accession: S20945; S21254

R;Bonham-Smith, P.C.; Oancia, T.L.; Moloney, M.M.

Plant Mol. Biol. 18, 909-919, 1992

A;Title: Cytoplasmic ribosomal protein S15a from Brassica napus: molecular cloning and d

A;Reference number: S20945; MUID:92256612; PMID:1581568

A;Accession: S20945

A;Molecule type: mRNA

A;Residues: 1-130 <BON>

A;Cross-references: EMBL:X59983; NID:G17862; PIDN:CAA42599.1; PID:G17863

A;Accession: S21254

A;Molecule type: mRNA

A;Residues: 1-130 <BO2>

A;Cross-references: EMBL:X59984

C;Superfamily: Escherichia coli ribosomal protein S8

C;Keywords: protein biosynthesis; ribosome

Y 36 AAAASAG 42

b 77 AAAASAG 83

RESULT 41

72524

hypothetical protein APE2167 - Aeropyrum pernix (strain K1)

C;Species: Aeropyrum pernix

C;Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 20-Aug-1999

C;Accession: B72524

R;Kawarayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah

wa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K

NA, H.; 6, 83-101, 1999

A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr

A;Reference number: A72450; MUID:99310339; PMID:10382966

A;Accession: B72524

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-118 <KAW>

A;Cross-references: DDBJ:AP000063; NID:G5105654; PIDN:BA81178.1; PID:dl044964; PID:G510

A;Experimental source: strain K1

C;Genetics:

A;Gene: APE2167

Query Match 1.1%; Score 7; DB 2; Length 118;

Best Local Similarity 100.0%; Pred. No. 63;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 537 TLLAAM 543

b 100 TLLAAM 106

RESULT 42

AF3085

two component response regulator Atu4306 [imported] - Agrobacterium tumefaciens (strain

C;Species: Agrobacterium tumefaciens

C;Date: 11-Jan-2002 #sequence\_revision 11-Jan-2002 #text\_change 03-Mar-2003

C;Accession: AF3085

R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I

frage, G.; Gillet, W.; Grant, C.; Guenther, D.; Kuttyavin, T.; Levy, R.; Li, M.; McClell

kar, P.; Romero, P.; Zhang, S.

Science 294, 2317-2323, 2001

A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,

ster, E.W.

A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.

A;Reference number: AB2577; MUID:21608550; PMID:11743193

A;Accession: AF3085

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-119 <KUR>

A;Cross-references: GB:A3008689; PIDN:AAL45100.1; PID:gl7742768; GSFDB:GN00187

A;Experimental source: strain C58 (Dupont)

C;Genetics:

A;Gene: Atu4306

A;Map position: linear chromosome

C;Superfamily: signal transduction receiver (phosphoacceptor) protein (CheY-like); resp

Query Match 1.1%; Score 7; DB 2; Length 119;

Best Local Similarity 100.0%; Pred. No. 63;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 265 LASLVEL 271

DB 16 LASLVEL 22

RESULT 43

I03242

3-box binding factor 2A - rice (fragment)

C;Species: Oryza sativa (rice)

```

Query Match      1.1%; Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9

RESULT 46
B8213
hypotheical protein [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Mar-2001
C:Accession: B8213
R:Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, T.H.; Dewar, K.;
ansen, N.P.; Hughes, B.; Huizar, L.
Nature 406, 816-820, 2000
A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali,
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A:Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon,
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A:Reference number: A86141; MUID:21016719; PMID:11130712
A:Accession: B8213
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-130 <STO>
A:Cross-references: GB:AE005172; NID:g8439890; PIDN:AA75076.1; GSPDB:GN00141
C:Genetics:
A:Map position: 1
C:Superfamily: Escherichia coli ribosomal protein S8

Query Match      1.1%; Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9

RESULT 47
S6062
Photosystem II protein psbW - Arabidopsis thaliana
N:Alternate names: photosystem II reaction center protein, 6.1K
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Sep-1997
C:Accession: S6062
R:Jorkevic, Z.J.; Schroeder, W.P.; Pakrasi, H.B.; Irrgang, K.D.; Herrmann, R.G.; Oelmu
submitted to the EMBL data library, August 1995
A:Description: Characterization of PsbW, the only nuclear-encoded component of the photo
A:Reference number: S6062
A:Accession: S6062
A:Molecule type: DNA
A:Residues: 1-133 <LOR>
A:Cross-references: EMBL:X90769; NID:g950022; PID:g950023
C:Genetics:
A:Gene: psbW
A:Introns: 32/1
C:Keywords: chloroplast; membrane-associated complex; photosynthesis; photosystem II; th

Query Match      1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAA 586
DB 62 SAAATAA 68

```

```

RESULT 48
A84710
Photosystem II reaction center 6.1KD protein [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001
C:Accession: A84710
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Unayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
Nature 402, 761-768, 1999
A:Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A:Reference number: A84420; MUID:20083487; PMID:10617197
A:Accession: A84710
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-133 <STO>
A:Cross-references: GB:AE002093; NID:gi946362; PIDN:AA63080.1; GSPDB:GN00139
C:Genetics:
A:Gene: At2g30570
A:Map position: 2

Query Match      1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAA 586
DB 62 SAAATAA 68

RESULT 49
D87690
hypotheical protein CC3558 [imported] - Caulobacter crescentus
C:Species: Caulobacter crescentus
C:Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001
C:Accession: D87690
R:Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Neilson, K.E.; Eisen, J.; Heidelberg, J.
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolo
n, J.; Smolava, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4143, 2001
A:Title: Complete Genome Sequence of Caulobacter crescentus.
A:Reference number: A87249; MUID:21173698; PMID:11259647
A:Accession: D87690
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-133 <STO>
A:Cross-references: GB:AE005673; NID:gi13425296; PIDN:AAK25520.1; GSPDB:GN00148
C:Genetics:
A:Gene: CC3558

Query Match      1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAA 39
DB 14 AATAAA 20

RESULT 50
AB0331
sigma E factor regulatory protein rseC [imported] - Yersinia pestis (strain CO92)
C:Species: Yersinia pestis
C:Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Nov-2001
C:Accession: AB0331
R:Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B
geno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell,
Nature 413, 523-527, 2001
A:Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A:Reference number: AB0001; MUID:21470413; PMID:11586360
A:Accession: AB0331

```

```

>Status: preliminary
>Molecule type: DNA
>Residues: 1-151 <KUR>
>Cross-references: GB:AL590842; PIDN:CAC92953.1; PID:G15980692; GSPDB:GN00175
>Genetics:
>Gene: rseC
>Superfamily: Escherichia coli sigma-E factor regulatory protein rseC

Query Match      1.1%  Score 7;  DB 2;  Length 151;
Best Local Similarity 100.0%;  Pred. No. 78;
Matches 7;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

> 214 LTPLVGL 220
> 83 LTPLVGL 89

```

Search completed: February 5, 2004, 16:06:43  
 Job time : 25 secs



GenCore version 5.1.6  
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protein - protein search, using sw model

on: February 5, 2004, 15:51:41, Search time 17 seconds

(without alignments)  
1806.379 Million cell updates/sec

le: US-09-989-279-229

fect score: 653

rence: 1 MKLLMQVTVHHTWNAILLP.....ISEPYIIQHTTKDKVQSTOI 653

ring table: OLIGO  
Gapop 60.0, Gapext 60.0

arched: 127863 seqs, 47026705 residues

rd size: 6

tal number of hits satisfying chosen parameters: 1629

nimum DB seq length: 0

ximum DB seq length: 2000000000

st-processing: Listing first 150 summaries

tabase: SwissProt\_41.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

sult No.	Score	Query Match	Length	DB	ID	Description
1	9	1.4	256	1	ATPF_HUMAN	P24539 homo sapien
2	8	1.2	256	1	ATPF_MOUSE	Q9CG97 mus musculus
3	8	1.2	256	1	ATPF_RAT	P19511 rattus norv
4	8	1.2	440	1	GAT4_MOUSE	Q08369 mus musculus
5	8	1.2	440	1	GAT4_RAT	P46152 rattus norv
6	8	1.2	442	1	GAT4_HUMAN	P43694 homo sapien
7	8	1.2	555	1	MCRA_METPE	P12971 methanother
8	8	1.2	732	1	DD35_CABEL	Q9bkg8 caenorhabdi
9	8	1.2	878	1	SYL_TREPA	Q83595 treponema p
10	8	1.2	926	1	RPML_ARATH	Q93214 arabidopsis
11	8	1.2	1111	1	MATE_MOUSE	Q9rlm5 mus musculus
12	8	1.2	2054	1	YCP2_PINTH	P41653 pinus thurb
13	8	1.2	3414	1	POIG_LANVT	P39837 l genome po
14	7	1.1	40	1	ANPB_MTOAE	P20617 myxocephal
15	7	1.1	45	1	ANPB_MYOSC	P04368 myxocephal
16	7	1.1	100	1	Y638_MYCLE	Q49769 mycobacteri
17	7	1.1	102	1	RS10_LISMO	Q927k6 listeria mo
18	7	1.1	102	1	RS10_PLARO	P72232 planobisp
19	7	1.1	102	1	RS10_SPRO	Q910el streptomyc
20	7	1.1	113	1	RLAI_DICDI	P23684 dictyosteli
21	7	1.1	116	1	CHU5_BROVI	P3424 drosophila
22	7	1.1	123	1	RSIA_ARATH	P42798 arabidopsis
23	7	1.1	129	1	RSIA_BRANA	Q00332 brassica na
24	7	1.1	129	1	RSIA_DICDI	P46793 dictyosteli
25	7	1.1	130	1	RS22_AGABI	P46792 agaricus bi
26	7	1.1	173	1	RUVG_BRUME	Q9viv7 bruceella me
27	7	1.1	192	1	HIS5_AZOBR	P16785 azospirillum
28	7	1.1	199	1	Y002_RHIME	Q92tfl rhizobium m
29	7	1.1	200	1	PRL_FROAT	P33091 proctoterus
30	7	1.1	213	1	RLA4_RAT	Q33507 rattus norv
31	7	1.1	216	1	LEP2_NPVLD	P36869 lymantria d
32	7	1.1	230	1	EF1B_BETUV	P81918 beta vulgar
33	7	1.1	230	1	HXA7_HUMAN	P31268 homo sapien

P03733 bacterioph  
Q82202 salmonella  
Q821K5 salmonella  
Q9ab80 caulobacter  
Q921r5 helicobacte  
Q25290 helicobacte  
Q53143 rhodobacter  
P39582 bacillus su  
P05317 saccharomyc  
P31311 mus musculu  
P45527 escherichia  
Q07352 homo sapien  
P23950 mus musculu  
P17431 rattus norv  
P18264 drosophila  
Q28335 archaeoglob  
Q00303 homo sapien  
Q8p9c0 xanthomonas  
P52655 homo sapien  
Q42477 brachydanio  
P13258 methanosarc  
Q975X3 sulfolobus  
Q43435 homo sapien  
Q29995 archaeoglob  
P41971 mus musculu  
Q9aut6 thizobium t  
P49920 ovis aries  
Q9p278 campylobact  
Q10666 caenorhabdi  
Q921j1 helicobacte  
Q25360 helicobacte  
P52166 caenorhabdi  
Q01836 listeria in  
P00634 escherichia  
P09085 drosophila  
P21948 escherichia  
P13147 serratia ma  
P35483 pseudomonas  
P21171 listeria mo  
Q8ywf0 anabaena sp  
P48454 homo sapien  
P34528 caenorhabdi  
P48455 mus musculu  
Q92058 gallus gall  
P03487 bos taurus  
Q23486 felis siive  
P05186 homo sapien  
P03242 mus musculu  
P08269 rattus norv  
P06861 homo sapien  
P10696 homo sapien  
P05187 homo sapien  
P05188 homo sapien  
Q43255 zea mays (m  
Q9uew8 homo sapien  
Q43078 plesum sativ  
P23057 phasea bras  
P42846 saccharomyc  
P48021 camptotheca  
P12541 human adeno  
P39768 drosophila  
P06129 escherichia  
P37409 salmonella  
Q01617 drosophila  
Q9rsp3 deinococcus  
Q822b3 salmonella  
Q82196 salmonella  
Q829w7 versinia pe  
P28826 rattus norv  
P42434 bacillus su  
P15143 gallus gall  
P14859 homo sapien  
Q29076 sus scrofa

107 7 1.1 776 1 CUL1\_HUMAN  
108 7 1.1 776 1 CUL1\_MOUSE  
109 7 1.1 781 1 TL22\_CHICK  
110 7 1.1 793 1 TL21\_CHICK  
111 7 1.1 810 1 SYFB\_SYNY3  
112 7 1.1 834 1 TF1B\_MOUSE  
113 7 1.1 855 1 ENV\_HVIA2  
114 7 1.1 871 1 MGR6\_RAT  
115 7 1.1 906 1 AD22\_HUMAN  
116 7 1.1 908 1 GLR2\_CABEL  
117 7 1.1 917 1 VGLR\_HSVB2  
118 7 1.1 962 1 GLR1\_CABEL  
119 7 1.1 968 1 SLA2\_YEAST  
120 7 1.1 1009 1 POL\_SIVCE3  
121 7 1.1 1010 1 UFD2\_SCHPO  
122 7 1.1 1011 1 CAP2\_SYNEL  
123 7 1.1 1042 1 RAG1\_RABIT  
124 7 1.1 1047 1 POL\_SIVAI  
125 7 1.1 1053 1 HMDE\_SCHPO  
126 7 1.1 1061 1 POL\_SIVAT  
127 7 1.1 1082 1 SC73\_SCHPO  
128 7 1.1 1180 1 EK5B\_ECOLI  
129 7 1.1 1233 1 MUSA\_HUMAN  
130 7 1.1 1392 1 CND1\_MOUSE  
131 7 1.1 1505 1 CUT1\_HUMAN  
132 7 1.1 1563 1 POLG\_TURVQ  
133 6 0.9 22 1 BS23\_SERPL  
134 6 0.9 37 1 ANP3\_PSEAM  
135 6 0.9 42 1 TM04\_DROME  
136 6 0.9 65 1 B912\_SCHMO  
137 6 0.9 65 1 YNOL\_RHIFR  
138 6 0.9 71 1 YE34\_ANASP  
139 6 0.9 72 1 RS20\_AERYH  
140 6 0.9 72 1 RS20\_AERSO  
141 6 0.9 75 1 TRBK\_AGRAT  
142 6 0.9 80 1 R31B\_STRMU  
143 6 0.9 82 1 S61B\_ARATH  
144 6 0.9 85 1 ANP4\_PSEAM  
145 6 0.9 85 1 BM02\_HUMAN  
146 6 0.9 85 1 OAG1\_VIBCH  
147 6 0.9 86 1 PAK1\_ANASP  
148 6 0.9 86 1 PSAK\_MASIA  
149 6 0.9 88 1 RS15\_YEREN  
150 6 0.9 91 1 ANPX\_PSEAM

## ALIGNMENTS

RESULT 1  
ATPF\_HUMAN  
ID ATPF\_HUMAN STANDARD; PRT; 256 AA.  
AC P24539; Q9BQ69; Q9BRU8;  
DT 01-MAR-1992 (Rel. 21, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
DR ATPSF1.  
GN Homo sapiens (Human).  
OS Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=91337033; PubMed=1931354;  
RA Higuchi T., Tsurumi C., Osaka F., Kawamura Y., Tsujita H.,  
RA Yoshikawa Y., Tani I., Tanaka K., Ichikawa A.,  
RT "Molecular cloning of cDNA for the import precursor of human subunit  
RT B of H(+)-ATP synthase in mitochondria."  
RL Biochem. Biophys. Res. Commun. 178:1014-1020(1991).  
RN [2]  
RP SEQUENCE FROM N.A.  
RA Coville G.,

Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.  
[3]  
SEQUENCE FROM N.A.  
TISSUE=Brain;  
MEDLINE=22388257; PubMed=12477932;  
RA Strausberg R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Klausner R.L., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Prange C.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S.K., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pahey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bonifant G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length  
RT human and mouse cDNA sequences."  
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (in) = ADP + phosphate +  
CC H(+) (out).  
CC -1- SUBUNIT: P-TYPE ATPASES HAVE 2 COMPONENTS, CF(1) - THE CATALYTIC  
CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL. CF(1) HAS FIVE  
CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
CC HAS THREE MAIN SUBUNITS: A, B AND C.  
CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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CC or send an email to license@isb-sib.ch).  
CC -----  
CC EMBL; X60221; CAA42782.1; -;  
CC EMBL; AL390195; CAC36042.1; -;  
CC EMBL; BC005366; AAH05366.1; -;  
CC EMBL; BC005960; AAH05960.1; -;  
CC EMBL; BC016350; AAH16350.1; -;  
CC PIR; JQ1144; JQ1144.  
CC Genew; HGNC:840; ATP5F1.  
CC MIM; 603270; -;  
CC GO; GO:0005759; C-mitochondrial matrix; TAS.  
CC GO; GO:0003936; F-hydrogen-transporting two-sector ATPase act. . .; TAS.  
CC KW Hydrogen ion transport; CF(0); Mitochondrion; Transloc peptide;  
CC Polymorphism.  
CC TRANSIT 1 42 MITOCHONDRION.  
CC CHAIN 43 256 ATP SYNTHASE B CHAIN.  
CC VARIANT 152 152 T -> N (in dbSNP:1264895).  
CC /FTId=VAR\_013176.  
CC CONFLICT 84 84 I -> V (IN REF. 1).  
CC CONFLICT 91 91 E -> G (IN REF. 3; AAH05960).  
CC CONFLICT 194 194 K -> R (IN REF. 3; AAH05960).  
CC SQ SEQUENCE 256 AA; 28908 MW; 743B1C54BFFB8BD CRC64;  
Query Match 1.4%; Score 9; DB 1; Length 256;  
Best Local Similarity 100.0%; Pred. No. 0.53;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 580 SAAATAAPS 588  
Db 8 SAAATAAPS 16  
RESULT 2  
ATPF\_MOUSE

ID ATPE MOUSE STANDARD; PRT; 256 AA.  
 IC Q9CQ07;  
 IT 28-FEB-2003 (Rel. 41, Created)  
 XT 28-FEB-2003 (Rel. 41, Last sequence update)  
 XT 28-FEB-2003 (Rel. 41, Last annotation update)  
 XT ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
 XN ATP5F1.  
 XS Mus musculus (Mouse).  
 XC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 XC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 XX NCBI\_TaxID=10090;  
 XN [1]  
 XP SEQUENCE FROM N.A.  
 XC STRAIN=C57BL/6J; TISSUE=Brain, and Embryo;  
 XC MEDLINE=21085660; PubMed=11217851;  
 XA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,  
 XA Aizawa K., Izawa M., Fukunishi Y., Konno H., Adachi J., Fukuda S.,  
 XA Arakawa T., Nishi K., Kiyosawa H., Kondo S., Yamamoto I.,  
 XA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,  
 XA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,  
 XA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,  
 XA Kuehl P., Lewis S., Marsuo Y., Nikaido I., Pesole G., Quackenbush J.,  
 XA Schari L.M., Staulli F., Suzuki R., Tomita M., Wagner L., Washio T.,  
 XA Sakai K., Okido T., Furino M., Aono H., Baldarelli R., Barsh G.,  
 XA Blake J., Bojelli D., Bojunga N., Carninci P., de Bonaldo M.F.,  
 XA Brownstein M.J., Balt C., Fletcher C., Fujita M., Gariboldi M.,  
 XA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,  
 XA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,  
 XA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,  
 XA Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-F.,  
 XA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,  
 XA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Koutsuki S.,  
 XA Hayashizaki Y.;  
 XT "Functional annotation of a full-length mouse cDNA collection."  
 RL Nature 409:685-690(2001).  
 CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (In) = ADP + phosphate +  
 H(+) (Out).  
 CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL, CF(1) HAS FIVE  
 CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
 CC HAS THREE MAIN SUBUNITS: A, B AND C.  
 CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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 CC EMBL; AK002960; BAB22481.1; -;  
 DR EMBL; AK011312; BAB27538.1; -;  
 DR MGD; MGI:1100495; Atpsf1.  
 KW Hydrogen ion transport; CF(0); Mitochondrion; Transit peptide.  
 FT TRANSIT 1 42 MITOCHONDRION (BY SIMILARITY).  
 FT CHAIN 43 256 ATP SYNTHASE B CHAIN.  
 SQ SEQUENCE 256 AA; 28949 MW; 6B385A4DECB784 CRC64;  
 Query Match 1.2%; Score 8; DB 1; Length 256;  
 Best Local Similarity 100.0%; Pred. No. 5.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAAATAAP 587  
 DB 8 SAAATAAP 15  
 RESULT 3  
 ATPE RAT  
 ID ATPE RAT STANDARD; PRT; 256 AA.  
 AC P19511.  
 DT 01-FEB-1991 (Rel. 17, Created)

DT 01-FEB-1991 (Rel. 17, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
 GN ATP5F1 OR ATP5F.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 XN [1]  
 XP SEQUENCE FROM N.A.  
 RX MEDLINE=90274656; PubMed=2140936;  
 RA Tsurumi C., Yoshihara Y., Osaka F., Yamada F., Tani I., Higuti T.,  
 RA Shimizu M., Oeda K., Ohkawa H., Toda H., Kakuno T., Sakiyama F.,  
 RA Kumatori A., Tanaka K., Ichihara A.;  
 RT "cDNA cloning and sequencing for the import precursor of subunit B in  
 RT H(+)-ATP synthase from rat mitochondria."  
 RL Biochem. Biophys. Res. Commun. 189:136-142(1990).  
 CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (In) = ADP + phosphate +  
 H(+) (Out).  
 CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL, CF(1) HAS FIVE  
 CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
 CC HAS THREE MAIN SUBUNITS: A, B AND C.  
 CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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 CC EMBL; M35052; AAA42187.1; -;  
 DR PIR; A35340; A35340.  
 KW Hydrogen ion transport; CF(0); Mitochondrion; Transit peptide.  
 FT TRANSIT 1 42 MITOCHONDRION.  
 FT CHAIN 43 256 ATP SYNTHASE B CHAIN.  
 SQ SEQUENCE 256 AA; 28869 MW; 8E27538B6DF682BE CRC64;  
 Query Match 1.2%; Score 8; DB 1; Length 256;  
 Best Local Similarity 100.0%; Pred. No. 5.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAAATAAP 587  
 DB 8 SAAATAAP 15  
 RESULT 4  
 ID GAT4 MOUSE STANDARD; PRT; 440 AA.  
 AC Q08369; P97491; Q9QZK4;  
 DT 01-OCT-1994 (Rel. 30, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Transcription factor GATA-4 (GATA binding factor-4).  
 GN GATA4 OR GATA-4.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 XN [1]  
 XP SEQUENCE FROM N.A.  
 RX MEDLINE=93204969; PubMed=8455608;  
 RA Arceri R.J., King A.A., Simon M.C., Orkin S.H., Wilson D.B.;  
 RT "Mouse GATA-4: a retinoic acid-inducible GATA-binding transcription  
 RT factor expressed in endodermally derived tissues and heart."  
 RL Mol. Cell. Biol. 13:2235-2246(1993).  
 XN [2]  
 XP IDENTIFICATION OF PROBABLE FRAMESHIFTS.  
 RX MEDLINE=94365018; PubMed=808222.  
 RA Laverriere A.C., Macneill C., Mueller C., Poelmann R.E.,

RA Burch J.B.E., Evans T.;  
 RT "GATA-4/5/6, a subfamily of three transcription factors transcribed  
 RL in developing heart and gut.";  
 RL J. Biol. Chem. 269:23177-23184 (1994).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RA Morrissey E.E., Parmacek M.S.;  
 RL Submitted (JAN-1997) to the EMBL/GenBank/DBJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RA Katsuno F., Mochizuki H., Yamamoto M.;  
 RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.  
 RN [5]  
 RP CHARACTERIZATION.  
 RA MEDLINE=95234034; PubMed=7717974;  
 RA Bielinska M., Wilson D.B.;  
 RL Regulation of J6 gene expression by transcription factor GATA-4.\*;  
 RL Biochem. J. 307:183-189 (1995).  
 CC -!- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE CONSENSUS  
 CC SEQUENCE 5'-AGATAG-3'. REGULATES THE EXPRESSION OF THE HSP47/J6  
 CC GENE IN F9 CELLS.  
 CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC -!- TISSUE SPECIFICITY: HEART, INTESTINE, LIVER, PRIMITIVE ENDODERM  
 CC AND GONADS.  
 CC -!- INDUCTION: By retinoic acid.  
 CC -!- SIMILARITY: Contains 2 GATA-type zinc fingers.  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 DR EMBL; M98339; AAA37662.1; ALT\_SEQ.  
 DR EMBL; U85046; AAB42015.1; -.  
 DR EMBL; AF179424; AAD55266.1; -.  
 DR HSSP; P17679; IGNF.  
 DR TRANSFAC; T02532; -.  
 DR MGD; MGI:95664; Gata4.  
 DR GO; GO:0005634; C:nucleus; IDA.  
 DR GO; GO:0007507; F:heart development; IMP.  
 DR InterPro; IPR000679; Znf GATA.  
 DR Pfam; PF05349; GATA-N; 1.  
 DR Pfam; PF03320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; ZNF GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 KW Transcription regulation; Activator; DNA-binding; Zinc-finger;  
 KW Nuclear protein.  
 FT ZN\_FING 216 240 GATA-TYPE 1.  
 FT ZN\_FING 270 294 GATA-TYPE 2.  
 FT DOMAIN 118 126 POLY-ALA.  
 FT DOMAIN 174 181 POLY-ALA.  
 FT DOMAIN 275 279 POLY-THR.  
 FT DOMAIN 354 359 POLY-SER.  
 FT CONFLICT 29 30 SA -> RT (IN REF. 1).  
 FT CONFLICT 385 401 SVCVPRALHPSGAVCS -> FSSVSGHGSPHPLVLSAL  
 FT (IN REF. 1 AND 4).  
 SQ SEQUENCE 440 AA; 44543 MW; BBCC594AB5AB86DC CRC64;

Query Match 1.2%; Score 8; DB 1; Length 440;  
 Best Local Similarity 100.0%; Pred. No. 8.7;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 36 AAAASAGP 43  
 |||||  
 Db 176 AAAASAGP 183

RESULT 5  
 GATA4 RAT  
 ID GATA4 RAT  
 AC P46152; STANDARD; PRT; 440 AA.  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Transcription factor GATA-4 (GATA binding factor-4) (DNA binding  
 DE protein GATA-GT2).  
 GN GATA4.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=101116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Wistar; TISSUE=Stomach;  
 RX MEDLINE=9406504; PubMed=8248184;  
 RA Tamura S., Wang X.H., Maeda M., Futai M.;  
 RL "Gastric DNA-binding proteins recognize upstream sequence motifs of  
 RL parietal cell-specific genes.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 90:10876-10880 (1993).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Wistar; TISSUE=Stomach;  
 RX MEDLINE=94240185; PubMed=8183957;  
 RA Tamura S., Wang X.H., Maeda M., Futai M.;  
 RL Proc. Natl. Acad. Sci. U.S.A. 91:4609-4609 (1994).  
 CC -!- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE UPSTREAM  
 CC SEQUENCE OF THE H+/K+-ATPASE BETA GENE AND TO A SEQUENCE  
 CC CONTAINING THE GATA MOTIF. INVOLVED IN GENE REGULATION  
 CC SPECIFICALLY IN THE GASTRIC EPITHELIUM.  
 CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC -!- TISSUE SPECIFICITY: EXPRESSED PREDOMINANTLY IN GASTRIC MUCOSA AND  
 CC AT MUCH LOWER LEVELS IN THE INTESTINE. ALSO EXPRESSED IN TESTIS.  
 CC -!- SIMILARITY: Contains 2 GATA-type zinc fingers.  
 CC -----  
 DR EMBL; L22761; AAA16159.1; -.  
 DR PIR; I61183; I61183.  
 DR HSSP; P17679; IGNF.  
 DR TRANSFAC; T02716; -.  
 DR InterPro; IPR000679; Znf GATA.  
 DR Pfam; PF05349; GATA-N; 1.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; ZNF GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 KW Transcription regulation; Activator; DNA-binding; Zinc-finger;  
 KW Nuclear protein.  
 FT ZN\_FING 216 240 GATA-TYPE 1.  
 FT ZN\_FING 270 294 GATA-TYPE 2.  
 FT DOMAIN 118 126 POLY-ALA.  
 FT DOMAIN 174 181 POLY-ALA.  
 FT DOMAIN 275 279 POLY-THR.  
 FT DOMAIN 353 358 POLY-SER.  
 SQ SEQUENCE 440 AA; 44597 MW; 7C594FA95080AD43 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 440;  
 Best Local Similarity 100.0%; Pred. No. 8.7;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 36 AAAASAGP 43  
 |||||  
 Db 176 AAAASAGP 183

28-FEB-2003 (Rel. 41, Last annotation update)  
Methyl-coenzyme M reductase alpha subunit (EC 2.8.4.1) (Coenzyme-B  
sulfoethylthiotransferase alpha).  
MCRA.  
Methanothermobacterium fervidus.  
Archaea; Euryarchaeota; Methanobacteria; Methanobacteriales;  
Methanothermaceae; Methanothermobacter.  
NCBI\_TaxID=2180;  
[1]  
RN  
RP  
SEQUENCE FROM N.A.  
MEDLINE=89008091; PubMed=3170483;  
Weil C.F., Crum D.S., Sherif B.A., Reeve J.N.;  
"Structure and comparative analysis of the genes encoding component C  
of methyl coenzyme M reductase in the extremely thermophilic  
archaeobacterium Methanothermobacter fervidus.";  
J. Bacteriol. 170:4718-4726(1988).  
CC  
-1- FUNCTION: Reduction of methyl-coenzyme M (2-(methylthio)  
ethanesulfonic acid) with 7-mercaptoheptanoylthreonine phosphate  
to methane and an heterodisulfide.  
CC  
-1- CATALYTIC ACTIVITY: 2-(methylthio)ethanesulfonate (methyl-CoM) +  
N-(7-mercaptoheptanoyl)threonine 3-O-phosphate (coenzyme B) = CoM-  
S-S-CoB + methane.  
CC  
-1- COFACTOR: Binds 2 coenzyme P430 noncovalently per hexamer.  
CC  
Coenzyme P430 is a yellow nickel porphyrinoid (by similarity).  
CC  
-1- PATHWAY: Methanogenesis; last step.  
CC  
-1- SUBUNIT: HEXAMER OF TWO ALPHA, TWO BETA, AND TWO GAMMA CHAINS.  
CC  
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CC  
EMBL: J03375; AAA72197.1;  
DR  
HSSP: P11558; 1MRO.  
DR  
InterPro: IPR003183; MCR\_alpha.  
DR  
Pfam: PF02249; MCR\_alpha\_1.  
DR  
Pfam: PF02745; MCR\_alpha\_N; 1.  
DR  
Kw Methanogenesis; Transferase; Nickel; Methylation.  
FT METAL 150 150  
FT MOD\_RES 260 260 METHYLATION (BY SIMILARITY).  
FT MOD\_RES 273 273 METHYLATION (BY SIMILARITY).  
SQ  
SEQUENCE 555 AA; 61550 MW; C2517AB56DA53D72 CRC64;  
  
Query Match 1.2%; Score 8; DB 1; Length 555;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 33 AATAAAS 40  
Db 406 AATAAAS 413  
  
RESULT 8  
DD35 CABEL  
ID DD35 CABEL STANDARD; PRT; 732 AA.  
AC Q9BK08; 2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Probable ATP-dependent helicase DDX35 homolog.  
GN Y67D2.6.  
OS Caenorhabditis elegans.  
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;  
OC Rhabditidae; Pelodierinae; Caenorhabditis.  
CC  
NCBI\_TaxID=6239;  
[1]  
RN  
RP  
SEQUENCE FROM N.A.  
RC STRAIN=Bristol N2;  
RA Waterston R;  
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.

28-FEB-2003 (Rel. 41, Last annotation update)  
Methyl-coenzyme M reductase alpha subunit (EC 2.8.4.1) (Coenzyme-B  
sulfoethylthiotransferase alpha).  
MCRA.  
Methanothermobacterium fervidus.  
Archaea; Euryarchaeota; Methanobacteria; Methanobacteriales;  
Methanothermaceae; Methanothermobacter.  
NCBI\_TaxID=2180;  
[1]  
RN  
RP  
SEQUENCE FROM N.A.  
MEDLINE=89008091; PubMed=3170483;  
Weil C.F., Crum D.S., Sherif B.A., Reeve J.N.;  
"Structure and comparative analysis of the genes encoding component C  
of methyl coenzyme M reductase in the extremely thermophilic  
archaeobacterium Methanothermobacter fervidus.";  
J. Bacteriol. 170:4718-4726(1988).  
CC  
-1- FUNCTION: Reduction of methyl-coenzyme M (2-(methylthio)  
ethanesulfonic acid) with 7-mercaptoheptanoylthreonine phosphate  
to methane and an heterodisulfide.  
CC  
-1- CATALYTIC ACTIVITY: 2-(methylthio)ethanesulfonate (methyl-CoM) +  
N-(7-mercaptoheptanoyl)threonine 3-O-phosphate (coenzyme B) = CoM-  
S-S-CoB + methane.  
CC  
-1- COFACTOR: Binds 2 coenzyme P430 noncovalently per hexamer.  
CC  
Coenzyme P430 is a yellow nickel porphyrinoid (by similarity).  
CC  
-1- PATHWAY: Methanogenesis; last step.  
CC  
-1- SUBUNIT: HEXAMER OF TWO ALPHA, TWO BETA, AND TWO GAMMA CHAINS.  
CC  
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CC  
EMBL: J03375; AAA72197.1;  
DR  
HSSP: P11558; 1MRO.  
DR  
InterPro: IPR003183; MCR\_alpha.  
DR  
Pfam: PF02249; MCR\_alpha\_1.  
DR  
Pfam: PF02745; MCR\_alpha\_N; 1.  
DR  
Kw Methanogenesis; Transferase; Nickel; Methylation.  
FT METAL 150 150  
FT MOD\_RES 260 260 METHYLATION (BY SIMILARITY).  
FT MOD\_RES 273 273 METHYLATION (BY SIMILARITY).  
SQ  
SEQUENCE 555 AA; 61550 MW; C2517AB56DA53D72 CRC64;  
  
Query Match 1.2%; Score 8; DB 1; Length 442;  
Best Local Similarity 100.0%; Pred. No. 8.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 36 AATAAAGP 43  
Db 176 AATAAAGP 183  
  
RESULT 7  
MCRA\_MTEFE  
ID MCRA\_MTEFE STANDARD; PRT; 555 AA.  
AC P1297L;  
DT 01-OCT-1989 (Rel. 12, Created)  
DT 01-OCT-1989 (Rel. 12, Last sequence update)

```

CC  -!- SIMILARITY: BELONGS TO THE DEAD BOX HELICASE FAMILY. DEAH
CC  SUBFAMILY.
CC  -----
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CC  -----
CC  EMBL: AC091125; AK227888.1; -
CC  WormPep; Y67D2.6; CE27311.
CC  InterPro: IPR001410; DEAH.
CC  InterPro: IPR002484; DEAH box.
CC  InterPro: IPR001650; Helicase_C.
CC  Pfam: PF04408; HA2; 1.
CC  Pfam: PF00271; helicase_C; 1.
CC  SMART: SM00487; DEXDC; 1.
CC  SMART: SM00490; HELIC; 1.
CC  PROSITE: PS00650; DEAH-ATP-HELICASE; 1.
CC  KW Hypothetical protein; Hydrolase; Helicase; ATP-binding.
CC  NP BIND 100 107 ATP (POTENTIAL).
CC  SITE 198 201 DEAH BOX.
CC  SQ SEQUENCE 732 AA; 82543 MW; E64171070E43BF41 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 732;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 PAATSAAA 583
DB 721 PAATSAAA 728
|||||

RESULT 9
SYL TREPA STANDARD; PRT; 878 AA.
AC O83595;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Leucyl-tRNA synthetase (EC 6.1.1.4) (Leucine-tRNA ligase) (LeuRS).
GN LEUS OR TPV586.
OS Treponema pallidum.
OC Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Treponema.
OX NCBI_TaxID:160;
RN [1]_TaxID:160;
RP SEQUENCE FROM N.A.
RC STRAIN=Nichols;
RA Fraser C.M., Norris S.J., Weinstein G.M., White O., Sutton G.G.,
RA Dodson R., Gwinn M., Hickey E.K., Clayton R., Ketchum K.A.,
RA Sodergren E., Hardam J.M., McLeod M.P., Salzberg S., Peterson J.,
RA Khalak H., Richardson D.M., Howell J.K., Chidambaram M., Uterback T.,
RA McDonald L., Artisch P., Bowman C., Cotton M.D., Fujii C., Garland S.,
RA Hatch B., Horst K., Roberts K., Sandusky M., Weidman J., Smith H.O.,
RA Venter J.C.;
RT "Complete genome sequence of Treponema pallidum, the syphilis
RT spirochete.";
RL Science 281:375-388(1998).
CC -!- CATALYTIC ACTIVITY: ATP + L-leucine + tRNA(Leu) = AMP +
CC diphosphate + L-leucyl-tRNA(Leu).
CC -!- SUBCELLULAR LOCATION: Cytoplasmic.
CC -!- SIMILARITY: Belongs to class-I aminoacyl-tRNA synthetase family.
CC -----
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CC  EMBL: AE001234; AAC65562.1; -
CC  PIR: C71305; C71305.
CC  TIGR: TP0586; -
CC  HAMAP: MF 00049; -; 1.
CC  InterPro: IPR002302; Leu-tRNA-synth.
CC  InterPro: IPR002300; tRNA-synt_1a.
CC  InterPro: IPR001412; tRNA-synt_1.
CC  Pfam: PF00133; tRNA-synt_1; 1.
CC  PRINTS: PR00985; TRNASYNTHLEU.
CC  TIGRFAMs: TIGR00396; leuS_bact; 1.
CC  PROSITE: PS00178; AA TRNA_LIGASE I; 1.
CC  KW Aminoacyl-tRNA synthetase; Protein biosynthesis; Ligase; ATP-binding;
CC  Complete proteome.
CC  SITE 43 54 "HIGH" REGION.
CC  SITE 634 638 "RMSKS" REGION.
CC  FT BINDING 637 637 ATP (BY SIMILARITY).
CC  SQ SEQUENCE 878 AA; 98991 MW; DCD74E2DC3652B74 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 878;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 117 GAFNGLAS 124
DB 404 GAFNGLAS 411
|||||

RESULT 10
RPML ARATH STANDARD; PRT; 926 AA.
AC Q39214;
DT 15-SEP-2003 (Rel. 42, Created)
DT 15-SEP-2003 (Rel. 42, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Disease resistance protein RPM1 (Resistance to Pseudomonas syringae
DE protein 3).
GN RPM1 OR RPS3 OR AT3G07040 OR F17A9.20.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosid II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID:3702;
RN [1]_
RP SEQUENCE FROM N.A., AND MUTANTS RPS3-2 AND RPS3-4.
RC STRAIN=cv. Columbia;
RX MEDLINE=S5365795; PubMed=7638602;
RA Grant M.R., Godiard L., Straube E., Ashfield T., Lewald J.,
RA Stettler A., Innes R.W., Dangl J.L.;
RT "Structure of the Arabidopsis RPM1 gene enabling dual specificity
RT disease resistance.";
RL Science 269:843-846(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=21016720; PubMed=11130713;
RA Salanoubat M., Lemcke K., Rieger M., Ansorge W., Unseld M.,
RA Fartmann B., Valle G., Bloeker H., Perez-Alonso M., Obermaier B.,
RA Delseny M., Boutry M., Grivell L.A., Mache R., Puigdomenech P.,
RA De Simone V., Choisme N., Artiguenave F., Robert C., Brottier P.,
RA Wincker P., Cattolico L., Weissenbach J., Saurin W., Quetier F.,
RA Schaefer M., Mueller-Alter S., Gabel C., Fuchs M., Benes V.,
RA Wurmbach E., Drzonek H., Erfle H., Jordan N., Bangert S.,
RA Wiedemann R., Kranz H., Voss H., Holland R., Brandt P., Nyakatura G.,
RA Vezzi A., D'Angelo M., Pallavicini A., Toppo S., Simonati B.,
RA Conrad A., Hornischer K., Kauer G., Loehner T.-H., Nordstiek G.,
RA Reichelt J., Scharfe M., Schoen O., Barges M., Terol J., Climent J.,
RA Navarro P., Collado C., Perez-Perez A., Ottenmaier B., Duchemin D.,
RA Cooke R., Landie M., Berger-Liauro C., Purnelle B., Masny D.,
RA de Haan M., Maarse A.C., Alcaraz J.-P., Cottet A., Casacuberta E.,
RA Monfort A., Argiriou A., Flores M., Liguori R., Vitale D.,
RA Manhaupt G., Haase D., Schoof H., Rudd S., Zaccaria P.,
RA Mayer K.F.X., Kaul S., Town C.D., Koo H.L., Tallon L.J., Jenkins J.,

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Rooney T., Rizzo M., Walte A., Utterback T., Fujii C.Y., Shea T.P.,  
 Creasy T.H., Haas B., Maiti P., Wu D., Peterson J., Van Aken S.,  
 Peai G., Miltscher J., Sellers P., Gill J.E., Feldhlym T.V.,  
 Preuss D., Lin X., Nierman W.C., Salzberg S.L., White O., Venter J.C.,  
 Fraser C.M., Kaneko T., Nakamura Y., Sato S., Kato T., Asamizu E.,  
 Sasamoto S., Kimura T., Idesawa K., Kawashima K., Kishida Y.,  
 Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Muraki A.,  
 Nakayama S., Nakazaki N., Shinpo S., Takeuchi C., Wada T.,  
 Matanabe A., Yamada M., Yasuda M., Tabeta S.,  
 "Sequence and analysis of chromosome 3 of the plant Arabidopsis  
 thaliana";  
 Nature 408:820-822(2000).  
 [3]  
 SUBCELLULAR LOCATION, AND DEGRADATION.  
 MEDLINE=99080103; PubMed=9861059;  
 A Boyes D.C., Nam J., Dangl J.L.,  
 "The Arabidopsis thaliana RPM1 disease resistance gene product is a  
 peripheral plasma membrane protein that is degraded coincident with  
 the hypersensitive response";  
 Proc. Natl. Acad. Sci. U.S.A. 95:15849-15854(1998).  
 [4]  
 MUTAGENESIS OF SER-43; PRO-105; GLY-174; LEU-186; GLY-203; GLY-205;  
 ALA-211; VAL-219; GLU-247; VAL-269; LEU-272; THR-290; LEU-301;  
 GLY-307; THR-313; GLY-325; GLU-340; LEU-344; ALA-379; GLY-384;  
 GLU-395; SER-439; PRO-442; PRO-464; GLY-467; GLU-471; ALA-474;  
 PRO-494; ARG-497; PRO-498; SER-515; PRO-520; SER-738; GLY-766;  
 LEU-778; LEU-781; ARG-787; ASN-787; LEU-852 AND LEU-924.  
 MEDLINE=11892071; PubMed=11894685;  
 Tornero P., Chao R.A., Luthin W.N., Goff S.A., Dangl J.L.,  
 "Large-scale structure-function analysis of the Arabidopsis RPM1  
 disease resistance protein";  
 Plant Cell 14:435-450(2002).  
 [5]  
 INTERACTION WITH TIP49A.  
 MEDLINE=22057630; PubMed=12062092;  
 Holt B.F. III, Boyes D.C., Ellerstrom M., Siefers N., Wiig A.,  
 Kaufman S., Grant M.R., Dangl J.L.,  
 "An evolutionarily conserved mediator of plant disease resistance gene  
 function is required for normal Arabidopsis development";  
 Dev. Cell 2:807-817(2002).  
 [6]  
 INTERACTION WITH RIN4.  
 MEDLINE=21952473; PubMed=11955429;  
 Mackey D., Holt B.F. III, Wiig A., Dangl J.L.,  
 "RIN4 interacts with Pseudomonas syringae type III effector molecules  
 and is required for RPM1-mediated resistance in Arabidopsis";  
 Cell 108:743-754(2002).  
 C-!- FUNCTION: Disease resistance (R) protein that specifically  
 recognizes the AvrRpm1 type III effector avirulence protein from  
 Pseudomonas syringae. Resistance proteins guard the plant against  
 pathogens that contain an appropriate avirulence protein via an  
 indirect interaction with this avirulence protein. That triggers a  
 defense system including the hypersensitive response, which  
 restricts the pathogen growth. Acts via its interaction with RIN4,  
 and probably triggers the plant resistance when RIN4 is  
 phosphorylated by AvrRpm1. It is then degraded at the onset of the  
 hypersensitive response.  
 C-!- SUBUNIT: Interacts directly with RIN4 via its N-terminal region.  
 Interacts with TIP49A, a protein known to interact with the TATA  
 binding protein complex (TBP).  
 C-!- SUBCELLULAR LOCATION: Cytoplasmic; membrane-associated.  
 C-!- DOMAIN: The LRR repeats probably act as specificity determinant of  
 pathogen recognition.  
 C-!- SIMILARITY: Belongs to the disease resistance NB-LRR family.  
 C-!- SIMILARITY: Contains 4 leucine-rich (LRR) repeats.  
 C-!- SIMILARITY: Contains 1 NB-ARC domain.  
 C-!- DATABASE: NAME=NIB-LRRS;  
 NOTE=Functional and comparative genomics of disease resistance gene  
 homologs;  
 WWW="http://niblrrs.ucdavis.edu".

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 -----  
 EMBL; X87851; CAA61131.1; -;  
 EMBL; AC016827; AAF27008.1; -;  
 PIR; A57072; A57072.  
 InterPro; IPR000767; Disease\_resist.  
 InterPro; IPR001611; LRR.  
 InterPro; IPR002182; NB-ARC.  
 Pfam; PF00560; LRR; 1.  
 Pfam; PF00931; NB-ARC; 1.  
 PRINTS; PR00364; DISEASERSIST.  
 Plant defense; Membrane; ATP-binding; Repeat; Leucine-rich repeat.  
 LRUICINE-ZIPPER.  
 DOMAIN 10 45  
 153 467  
 580 603  
 REPEAT 1.  
 REPEAT 605 625  
 REPEAT 626 649  
 REPEAT 778 804  
 REPEAT 804  
 NP\_BIND 200 207  
 ATP (POTENTIAL).  
 MUTAGEN 43 43  
 S->F: LOSS OF FUNCTION.  
 MUTAGEN 105 105  
 P->S: LOSS OF FUNCTION.  
 MUTAGEN 174 174  
 G->R: LOSS OF FUNCTION.  
 MUTAGEN 186 186  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 203 203  
 G->D,S: LOSS OF FUNCTION.  
 MUTAGEN 205 205  
 G->R,E: LOSS OF FUNCTION.  
 MUTAGEN 211 211  
 A->V: LOSS OF FUNCTION.  
 MUTAGEN 219 219  
 V->M: LOSS OF FUNCTION.  
 MUTAGEN 247 247  
 E->K: LOSS OF FUNCTION.  
 MUTAGEN 269 269  
 V->M: LOSS OF FUNCTION.  
 MUTAGEN 272 272  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 290 290  
 T->I: LOSS OF FUNCTION.  
 MUTAGEN 301 301  
 L->F: IN RPS3-2; LOSS OF FUNCTION.  
 MUTAGEN 307 307  
 G->E: LOSS OF FUNCTION.  
 MUTAGEN 313 313  
 T->I: LOSS OF FUNCTION.  
 MUTAGEN 325 325  
 G->E: LOSS OF FUNCTION.  
 MUTAGEN 340 340  
 E->K: LOSS OF FUNCTION.  
 MUTAGEN 341 341  
 A->V: LOSS OF FUNCTION.  
 MUTAGEN 344 344  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 379 379  
 A->V: LOSS OF FUNCTION.  
 MUTAGEN 384 384  
 G->R: LOSS OF FUNCTION.  
 MUTAGEN 395 395  
 E->K: LOSS OF FUNCTION.  
 MUTAGEN 439 439  
 S->F: LOSS OF FUNCTION.  
 MUTAGEN 442 442  
 P->L: LOSS OF FUNCTION.  
 MUTAGEN 464 464  
 P->L: LOSS OF FUNCTION.  
 MUTAGEN 467 467  
 G->R: LOSS OF FUNCTION.  
 MUTAGEN 471 471  
 E->K: LOSS OF FUNCTION.  
 MUTAGEN 474 474  
 A->T: LOSS OF FUNCTION.  
 MUTAGEN 494 494  
 P->L: LOSS OF FUNCTION.  
 MUTAGEN 497 497  
 R->Q: LOSS OF FUNCTION.  
 MUTAGEN 498 498  
 P->L,S: LOSS OF FUNCTION.  
 MUTAGEN 515 515  
 S->F: LOSS OF FUNCTION.  
 MUTAGEN 620 620  
 P->S,L: LOSS OF FUNCTION.  
 MUTAGEN 738 738  
 S->F: LOSS OF FUNCTION.  
 MUTAGEN 766 766  
 G->E: IN RPS3-4; LOSS OF FUNCTION.  
 MUTAGEN 778 778  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 781 781  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 787 787  
 R->H: LOSS OF FUNCTION.  
 MUTAGEN 812 812  
 N->I: LOSS OF FUNCTION.  
 MUTAGEN 852 852  
 L->F: LOSS OF FUNCTION.  
 MUTAGEN 924 924  
 L->F: LOSS OF FUNCTION.  
 SQ SEQUENCE 926 AA; 106882 MW; E2B2D6613CB0FA0D CRC64;

Query Match 1.2%; Score 8; DB 1; Length 926;  
 Best Local Similarity 100.0%; Pred. No. 17;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 196 FNLYLNL 203  
 Db 604 FNLYLNL 611



```
RESULT 11
DATE MOUSE
ID MATE_MOUSE STANDARD, PRT; 1111 AA.
AC Q9R1M5; Q9JLR2;
JT 28-FEB-2003 (Rel. 41, Created)
JT 28-FEB-2003 (Rel. 41, Last sequence update)
JT 28-FEB-2003 (Rel. 41, Last annotation update)
JE Maternal antigen that embryos require (Water protein) (Ooplasm-
specific protein 1) (OPl).
JE WATER.
XS Mus musculus (Mouse).
XC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
XC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
XX NCBI_TaxID=10090;
XX [1]
XX SEQUENCE FROM N.A. TISSUE=Ovary;
XX STRAIN=Swiss;
XX MEDLINE=99360614; PubMed=10433232;
XX Tong Z.-B., Nelson L.M.;
XX "A mouse gene encoding an oocyte antigen associated with autoimmune
premature ovarian failure.";
XX Endocrinology 140:3720-3726(1999).
XX [2]
XX SEQUENCE FROM N.A., AND VARIANTS ASP-7; LEU-42; LYS-87; PRO-256;
XX GLN-977 AND 1003-ASN-ASN-1004.
XX STRAIN=129/SV;
XX MEDLINE=2022768; PubMed=10754103;
XX Tong Z.-B., Nelson L.M., Dean J.;
XX "Water encodes a maternal protein in mice with a leucine-rich repeat
domain homologous to porcine ribonuclease inhibitor.";
XX Mamm. Genome 11:281-287(2000).
XX [3]
XX FUNCTION.
XX MEDLINE=20517328; PubMed=11062459;
XX Tong Z.-B., Gold L., Pfeifer K.E., Dorward H., Lee E., Bondy C.A.,
XX Dean J., Nelson L.M.;
XX "Water, a maternal effect gene required for early embryonic
development in mice";
XX Nat. Genet. 26:267-268(2000).
XX -!- FUNCTION: Necessary for embryonic development beyond the 2-cell
stage.
XX -!- SUBCELLULAR LOCATION: Cytoplasmic.
XX -!- TISSUE SPECIFICITY: Oocyte-specific.
XX -!- SIMILARITY: Contains 1 NACHT domain.
XX -!- SIMILARITY: Contains 13 leucine-rich (LRR) repeats.
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DR EMBL; AF074018; RAD51762.1;
DR EMBL; AF143573; AAF64393.1;
DR EMBL; AF143559; AAF64393.1; JOINED.
DR EMBL; AF143560; AAF64393.1; JOINED.
DR EMBL; AF143561; AAF64393.1; JOINED.
DR EMBL; AF143562; AAF64393.1; JOINED.
DR EMBL; AF143563; AAF64393.1; JOINED.
DR EMBL; AF143564; AAF64393.1; JOINED.
DR EMBL; AF143565; AAF64393.1; JOINED.
DR EMBL; AF143566; AAF64393.1; JOINED.
DR EMBL; AF143567; AAF64393.1; JOINED.
DR EMBL; AF143568; AAF64393.1; JOINED.
DR EMBL; AF143569; AAF64393.1; JOINED.
DR EMBL; AF143570; AAF64393.1; JOINED.
DR EMBL; AF143571; AAF64393.1; JOINED.
DR EMBL; AF143572; AAF64393.1; JOINED.
DR PIR; A59000; A59000.
-----
DR HSSP; P10775; 2BNH.
DR MGD; MGI:1345193; Water.
DR GO; GO:000829; C:cytosol; IDA.
DR GO; GO:0009887; P:organogenesis; IMP.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007091; LRR RNinh.
DR InterPro; IPR007111; NACHT_NTPase.
DR Pfam; PF00560; LRR; 3.
DR PROSITE; PS00837; NACHT; 1.
KW ATP-binding; Leucine-rich repeat; Repeat; Polymorphism.
FT DOMAIN 1 128 5 X APPROXIMATE TANDEM REPEATS.
FT REPEAT 1 23 1 (INCOMPLETE).
FT REPEAT 24 49 2.
FT REPEAT 50 75 3.
FT REPEAT 76 102 4.
FT REPEAT 103 128 5.
FT DOMAIN 191 513 NACHT.
FT REPEAT 640 664 LRR 1.
FT REPEAT 691 714 LRR 2.
FT REPEAT 737 762 LRR 3.
FT REPEAT 776 799 LRR 4.
FT REPEAT 804 832 LRR 5.
FT REPEAT 834 856 LRR 6.
FT REPEAT 861 884 LRR 7.
FT REPEAT 890 913 LRR 8.
FT REPEAT 918 941 LRR 9.
FT REPEAT 950 974 LRR 10.
FT REPEAT 975 1003 LRR 11.
FT REPEAT 1005 1027 LRR 12.
FT REPEAT 1032 1059 LRR 13.
FT NP_BIND 197 204 ATP (POTENTIAL).
FT VARIANT 7 7 E -> D (IN STRAIN 129/SV).
FT VARIANT 42 42 G -> L (IN STRAIN 129/SV).
FT VARIANT 87 87 R -> K (IN STRAIN 129/SV).
FT VARIANT 256 256 L -> P (IN STRAIN 129/SV).
FT VARIANT 977 977 H -> Q (IN STRAIN 129/SV).
FT VARIANT 1003 1004 SS -> NN (IN STRAIN 129/SV).
SQ SEQUENCE 1111 AA; 125502 MW; 4016ASD67AIC0IF4 CRC64;
Query Match 1.2%; Score 8; DB 1; Length 1111;
Best Local Similarity 100.0%; Pred.No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 197 NKYLNLG 204
DB 749 NKYLNLG 756
-----
RESULT 12
YCF2_PINTH STANDARD; PRT; 2054 AA.
AC P41653;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Hypothetical 244.6 kDa protein ycf2 (ORF 2054).
DE YCF2.
GN Pinus thunbergii (Green pine) (Japanese black pine).
OS Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Pinus.
OX NCBI_TaxID=3350;
OX [1]
RP SEQUENCE FROM N.A.
RP MEDLINE=95024047; PubMed=7937893;
RX Wakasugi T., Tsudzuki J., Ito S., Nakashima K., Tsudaaki T.,
RX Sugiura M.;
RT "Loss of all ndh genes as determined by sequencing the entire
chloroplast genome of the black pine Pinus thunbergii.";
RL Proc. Natl. Acad. Sci. U.S.A. 91:9794-9798(1994).
CC -!- FUNCTION: NOT YET KNOWN
CC -!- SIMILARITY: BELONGS TO THE YCF2 FAMILY.
-----
CC
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DR EMBL; D17510; BAA04460.1; --  
 DR PIR; T07584; T07584.  
 DR InterPro; IPR003593; AAA\_ATPase.  
 DR InterPro; IPR003959; AAA\_ATPase\_central.  
 DR Pfam; PF00004; AAA; 1.  
 DR SMART; SM00382; AAA; 1.  
 DR Chloroplast; Hypothetical protein.  
 DR Q SEQUENCE 2054 AA; 244604 MW; 65E92D078E33A9A CRC64;

Query Match 1.2%; Score 8; DB 1; Length 2054;  
 Best Local Similarity 100.0%; Pred.No. 34;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 275 HNNLSLP 282  
 b 819 HNNLSLP 826

RESULT 13  
 OLIG LANVT STANDARD; PRF; 3414 AA.  
 C P29837;  
 T 01-APR-1993 (Rel. 25, Created)  
 T 01-FEB-1994 (Rel. 28, Last annotation update)  
 T 28-FEB-2003 (Rel. 41, Last annotation update)  
 E Genome polyprotein [Contains: Capsid protein C (Core protein);  
 E Envelope protein p24; Matrix protein (Envelope M); Major  
 E envelope protein E; Nonstructural protein NS1; Nonstructural protein  
 E NS2A; Nonstructural protein NS2B; Helicase/protease (SC 3.4.21.98)  
 E (NS3); Nonstructural protein NS4A; Nonstructural protein NS4B; RNA-  
 E directed RNA polymerase (SC 2.7.7.48) (NS5)].  
 S Langat virus (strain TP21).  
 C Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 C Flavivirus.  
 X NCBI\_TaxID=31638;  
 N [1]  
 P SEQUENCE OF 1-776 FROM N.A.  
 X MEDLINE=92074260; PubMed=1720591;  
 A Mandl C.W., Iacono-Connors L., Wallner G., Holzmarm H., Kunz C.,  
 A Heinz F.X.;  
 L "Sequence of the genes encoding the structural proteins of the low-  
 L virulence tick-borne flaviviruses Langat TP21 and Yelantsev";  
 L Virology 185:891-895(1991).  
 N [2]  
 P SEQUENCE OF 777-3414 FROM N.A.  
 X MEDLINE=92263794; PubMed=1316684;  
 A Iacono-Connors L.C., Schmaljohn C.S.;  
 T "Cloning and sequence analysis of the genes encoding the  
 T nonstructural proteins of Langat virus and comparative analysis with  
 T other flaviviruses";  
 L Virology 188:875-880(1992).  
 C -1- CATALYTIC ACTIVITY: Hydrolysis of four peptide bonds in the viral  
 C precursor polyprotein, commonly with Asp or Glu in the p6  
 C position, Cys or Thr in p1 and Ser or Ala in p1'.  
 C -1- CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate +  
 C {RNA}(N).  
 C -1- SUBUNIT: THE VIRION OF THIS VIRUS IS A NUCLEOCAPSID COVERED BY A  
 C LIPID-PROTEIN ENVELOPE. THE ENVELOPE CONSISTS OF TWO PROTEINS:  
 C PROTEIN M AND GLYCOPROTEIN E. THE NUCLEOCAPSID IS A COMPLEX OF  
 C PROTEIN C AND RNA.  
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DR EMBL; M73835; AAA02740.1; ALT\_TERM.  
 DR EMBL; S35365; AAB22165.1; --  
 DR PIR; A42545; A42545.  
 DR HSSP; P14336; ISVB.  
 DR MEROPS; S07\_001; --  
 DR InterPro; IPR001410; DEAD.  
 DR InterPro; IPR001122; Flavi\_capsidC.  
 DR InterPro; IPR000336; Flavi\_glycoprote.  
 DR InterPro; IPR001850; Flavi\_helicase.  
 DR InterPro; IPR000069; Flavi\_M.  
 DR InterPro; IPR001157; Flavi\_NS1.  
 DR InterPro; IPR000752; Flavi\_NS2A.  
 DR InterPro; IPR000487; Flavi\_NS2B.  
 DR InterPro; IPR000404; Flavi\_NS4A.  
 DR InterPro; IPR001528; Flavi\_NS4B.  
 DR InterPro; IPR000208; Flavi\_NS5.  
 DR InterPro; IPR002535; Flavi\_propep.  
 DR InterPro; IPR002877; FtsJ.  
 DR InterPro; IPR001650; Helicase\_C.  
 DR InterPro; IPR007095; RNA\_pol\_DS\_PS.  
 DR InterPro; IPR007094; RNA\_pol\_PSVir.  
 DR Pfam; PF01003; Flavi\_capsid; 1.  
 DR Pfam; PF02832; Flavi\_glycoprot; 1.  
 DR Pfam; PF00869; Flavi\_glycoprot; 1.  
 DR Pfam; PF00949; Flavi\_helicase; 1.  
 DR Pfam; PF01004; Flavi\_M; 1.  
 DR Pfam; PF00948; Flavi\_NS1; 1.  
 DR Pfam; PF01005; Flavi\_NS2A; 1.  
 DR Pfam; PF01002; Flavi\_NS2B; 1.  
 DR Pfam; PF01350; Flavi\_NS4A; 1.  
 DR Pfam; PF01349; Flavi\_NS4B; 1.  
 DR Pfam; PF00972; Flavi\_NS5; 1.  
 DR Pfam; PF01570; Flavi\_propep; 1.  
 DR Pfam; PF01728; FtsJ; 1.  
 DR Pfam; PF00271; Helicase\_C; 1.  
 DR ProDom; PD001556; Flavi\_glycoprote; 1.  
 DR ProDom; PD001496; Flavi\_NS1; 1.  
 DR SMART; SM00487; DEXDC; 1.  
 DR SMART; SM00490; HELIC; 1.  
 KW Polyprotein; Glycoprotein; Transferase; RNA-directed RNA polymerase;  
 KW Core protein; Coat protein; Envelope protein; Hydrolase; Helicase;  
 KW ATP-binding; Transmembrane; Nonstructural protein.  
 KW INIT\_MET 1 1  
 FT CHAIN 1 112  
 FT CHAIN 113 205  
 FT CHAIN 206 280  
 FT CHAIN 281 776  
 FT CHAIN 777 1128  
 FT CHAIN 1129 1358  
 FT CHAIN 1359 1489  
 FT CHAIN 1490 2110  
 FT CHAIN 2111 2259  
 FT CHAIN 2260 2511  
 FT CHAIN 2512 3414  
 FT NP BIND 1688 1695  
 FT SITE 1779 1782  
 FT TRANSMEM 103 119  
 FT TRANSMEM 262 278  
 FT TRANSMEM 728 744  
 FT TRANSMEM 758 774  
 FT DISULFID 283 310  
 FT DISULFID 340 396  
 FT DISULFID 354 385  
 FT DISULFID 372 401  
 FT DISULFID 465 570  
 FT DISULFID 587 618  
 FT CARBOHYD 144 144

```

CC ALANINE-RICH, AMPHIPHILIC AND ALPHA-HELICAL.
KW PIR; A05163; A05163.
DR Antifreeze protein; Repeat.
FT MOD RES 1 1 BLOCKED.
FT REPEAT 9 21
FT REPEAT 22 33
FT REPEAT 34 45
FT REPEAT 34 45
SQ SEQUENCE 45 AA; 4006 MW; 260C0BCC63B6878 CRC64;

Query Match 1.1%; Score 7; DS 1; Length 45;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAA 39
| | | | |
DB 36 AATAAAA 42
| | | | |

RESULT 16
Y638 MYCLE
ID Y638 MYCLE STANDARD; PRT; 100 AA.
AC Q49769;
DDT 16-OCT-2001 (Rel. 40, Created)
DDT 16-OCT-2001 (Rel. 40, Last sequence update)
DDT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Hypothetical protein ML0638.
DE ML0638 OR B1937_F3_110.
OS Mycobacterium leprae.
OS Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OS Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OC NCBI_TaxID=1769;
OX [1]
RRN SEQUENCE FROM N.A.
RRP Smith D.R., Robison K.;
RA Submitted (MAR-1994) to the EMBL/GenBank/DBJ databases.
RRL [2]
RRN SEQUENCE FROM N.A.
RRP STRAIN=TN;
RRP MEDLINE=21128732; PubMed=11234002;
RA Cole S.T., Bigmeller K., Parkhill J., James K.D., Thomson N.R.,
RA Wheeler P.R., Honore N., Garnier T., Churcher C., Harris D.,
RA Mungall K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R.M., Devlin K., Duthoy S., Feltwell T., Fraser A., Hamlin N.,
RA Holroyd S., Hornsby T., Jagels K., Lacroix C., Maclean J., Moule S.,
RA Murphy L., Oliver K., Quail M.A., Rajandream M.A., Rutherford K.M.,
RA Rutter S., Seeger K., Simon S., Simmonds M., Skelton J., Squares R.,
RA Squares S., Stevens K., Taylor K., Whitehead S., Woodward J.R.,
RA Barrell B.G.;
RA "Massive gene decay in the leprosy bacillus.";
RRT Nature 409:1007-1011(2001).
RRR -!- SUBCELLULAR LOCATION: Secreted (Potential).
CCC
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CCC or send an email to license@isb-sib.ch)
CCC
CCC EMBL; U00016; AAA17175.1; -
CCC EMBL; AL583919; CAC30147.1; -
CCC PIR; S72607; S72607.
CCC Leproma; ML0638; -
CCC Hypothetical protein; Complete protein.
CCC SEQUENCE 100 AA; 11264 MW; 41BB117C37A3538A CRC64;

Query Match 1.1%; Score 7; DS 1; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAA 583
| | | | |

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```

24 AATSA 30
PRT; 102 AA.

RESULT 17
RS10_LISMO
STANDARD; PRT; 102 AA.
Q927K6;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
30S-ribosomal protein S10.
RPSJ OR LMO2633 OR LIN2782.
Listeria monocytogenes, and
Listeria innocua.
NCBI_TaxID=1639, 1642;
[1]
SEQUENCE FROM N.A.
SPECIES=L.monocytogenes, and L.innocua;
STRAIN=EGD-e / Serovar 1/2a, and CLIP 11262 / Serovar 6a;
MEDLINE=21537279; PubMed=11679669;
Glaser P., Frangeul L., Buchrieser C., Rusniok C., Amend A.,
Baquero F., Barthe P., Bloeker H., Brandt P., Chakraborty T.,
Charbit A., Chetoui P., Couve E., de Daruvar A., Dehoux P.,
Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
Entian K.-D., Fshir H., Garcia-del Portillo F., Garrido P.,
Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L.-M., Kaerst U., Kretz J., Kuhn M., Kunat F., Kurepkat G.,
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,
Nordisk G., Novella S., de Pablo E., Perez-Diaz J.-C., Purcell R.,
Remmel B., Rose M., Schluter T., Simoes N., Tierrez A.,
Vazquez-Boland J.-A., Voss H., Weiland J., Cossart P.,
"Comparative genomics of Listeria species.",
Science 294:849-852(2001).
-!- FUNCTION: Involved in the binding of tRNA to the ribosomes (By
similarity).
-!- SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.
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EMBL; AL596173; CAC98008.1; -
EMBL; AL591983; CAD00711.1; -
PIR; A11403; A11403.
ListiList; LMO2633; -
ListiList; LIN2782; -
HAMAP; MF_00508; -; 1.
InterPro; IPR001848; Ribosomal_S10.
Pfam; PF00338; Ribosomal_S10; 1.
ProDom; PD001272; Ribosomal_S10; 1.
TIGRFAMs; TIGR01049; rpsJ_bact; 1.
PROSITE; PS00361; RIBOSOMAL_S10; 1.
Ribosomal protein; Complete proteome.
Q SEQUENCE 102 AA; 11682 MW; 7E4B186EA533CCDB CRC64;

Query Match 1.1%; Score 7; DB 1; Length 102;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 172 SLMRLDL 178
86 SLMRLDL 92

RESULT 18
RS10_LISMO
STANDARD; PRT; 102 AA.
Q927K6;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
30S-ribosomal protein S10.
RPSJ OR LMO2633 OR LIN2782.
Listeria monocytogenes, and
Listeria innocua.
NCBI_TaxID=1639, 1642;
[1]
SEQUENCE FROM N.A.
SPECIES=L.monocytogenes, and L.innocua;
STRAIN=EGD-e / Serovar 1/2a, and CLIP 11262 / Serovar 6a;
MEDLINE=21537279; PubMed=11679669;
Glaser P., Frangeul L., Buchrieser C., Rusniok C., Amend A.,
Baquero F., Barthe P., Bloeker H., Brandt P., Chakraborty T.,
Charbit A., Chetoui P., Couve E., de Daruvar A., Dehoux P.,
Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
Entian K.-D., Fshir H., Garcia-del Portillo F., Garrido P.,
Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L.-M., Kaerst U., Kretz J., Kuhn M., Kunat F., Kurepkat G.,
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,
Nordisk G., Novella S., de Pablo E., Perez-Diaz J.-C., Purcell R.,
Remmel B., Rose M., Schluter T., Simoes N., Tierrez A.,
Vazquez-Boland J.-A., Voss H., Weiland J., Cossart P.,
"Comparative genomics of Listeria species.",
Science 294:849-852(2001).
-!- FUNCTION: Involved in the binding of tRNA to the ribosomes (By
similarity).
-!- SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.
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EMBL; X98830; CAA67346.1; -
PIR; S72629; S72629.
HAMAP; MF_00508; -; 1.
InterPro; IPR001848; Ribosomal_S10.
Pfam; PF00338; Ribosomal_S10; 1.
ProDom; PD001272; Ribosomal_S10; 1.
TIGRFAMs; TIGR01049; rpsJ_bact; 1.
PROSITE; PS00361; RIBOSOMAL_S10; 1.
Ribosomal protein; Complete proteome.
Q SEQUENCE 102 AA; 11486 MW; 32084A830EB5477 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 102;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 172 SLMRLDL 178
86 SLMRLDL 92

RESULT 19
RS10_STRCO
STANDARD; PRT; 102 AA.
Q9L0E1;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
15-SEP-2003 (Rel. 42, Last annotation update)
30S-ribosomal protein S10.
RPSJ OR SCO4701 OR SCD31.26 OR SAV4925.
Streptomyces coelicolor, and
Streptomyces avermitilis.
Streptomyces coelicolor; Actinobacteridae; Actinomycetales;
Bacteria; Actinobacteria; Streptomycetaceae; Streptomyces.
NCBI_TaxID=1502, 33903;
[1]
SEQUENCE FROM N.A.
SPECIES=S.coelicolor; STRAIN=A3(2) / M145;
MEDLINE=21996410; PubMed=12000953;

```

2A Bentley S.D., Chater K.F., Cerdano-Tarraga A.-M., Challis G.L.,  
 2B Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,  
 2C Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,  
 2D Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,  
 2E Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neill S.,  
 2F Rabinowitz E., Rajandream M.A., Rutherford K., Rutter S.,  
 2G Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,  
 2H Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,  
 2I Hopwood D.A.,  
 2J "Complete genome sequence of the model actinomycete Streptomyces  
 2K coelicolor A3(2).",  
 2L Nature 417:141-147(2002).  
 2M [2]  
 2N SEQUENCE FROM N.A.  
 2O SPECIES=S.avermitilis;  
 2P STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;  
 2Q MEDLINE=21477403; PubMed=11572948;  
 2R Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C.,  
 2S Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osonoe T.,  
 2T Kikuchi H., Shiba T., Sakaki Y., Hattori M.,  
 2U "Genome sequence of an industrial microorganism Streptomyces  
 2V avermitilis: deducing the ability of producing secondary  
 2W metabolites.",  
 2X Proc. Natl. Acad. Sci. U.S.A. 98:12215-12220(2001).  
 2Y [3]  
 2Z SEQUENCE FROM N.A.  
 3A SPECIES=S.avermitilis;  
 3B STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;  
 3C MEDLINE=22608306; PubMed=12692562;  
 3D Ikeda H., Ishikawa J., Hanamoto A., Shinose M., Kikuchi H., Shiba T.,  
 3E Sakaki Y., Hattori M., Omura S.,  
 3F "Complete genome sequence and comparative analysis of the industrial  
 3G microorganism Streptomyces avermitilis.",  
 3H Nat. Biotechnol. 21:528-531(2003).  
 3I !- FUNCTION: Involved in the binding of tRNA to the ribosomes (By  
 3J similarity).  
 3K !- SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.  
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 3S  
 3T EMBL; AL939121; CAB82069.1; -;  
 3U EMBL; AP005040; BAC72637.1; -;  
 3V HAVAP; MF\_00508; -; 1.  
 3W InterPro; IPR001848; Ribosomal S10.  
 3X InterPro; IPR005731; S10 bact.  
 3Y Pfam; PF00138; Ribosomal\_S10; 1.  
 3Z PRINTS; PR00971; RIBOSOMALS10.  
 4A PRODOM; PD001272; Ribosomal\_S10; 1.  
 4B TIGRFAMs; TIGR01049; rpsJ\_bact; 1.  
 4C PROSITE; PS00361; RIBOSOMAL\_S10; 1.  
 4D Ribosomal protein; Complete proteome.  
 4E SEQUENCE 102 AA; 11521 MW; 87AE8768EB157E09 CRC64;  
 4F  
 4G Query Match 1.1%; Score 7; DB 1; Length 102;  
 4H Best Local Similarity 100.0%; Pred. No. 25;  
 4I Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 4J  
 4K 172 SLMRDL 178  
 4L |||||  
 4M 86 SLMRDL 92  
 4N  
 4O RESULT 20  
 4P RLAL DICI  
 4Q ID RLAL DICI STANDARD; PRT; 113 AA.  
 4R AC P22684;  
 4S 01-AUG-1991 (Rel. 19, Created)

01-AUG-1991 (Rel. 19, Last sequence update)  
 15-DEC-1998 (Rel. 37, Last annotation update)  
 60S acidic ribosomal protein P1.  
 Dictyostelium discoideum (Slime mold).  
 Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.  
 NCBI\_TaxID=44689;  
 [1]  
 SEQUENCE FROM N.A.  
 STRAIN=AX3;  
 MEDLINE=91232920; PubMed=2030950;  
 Prieto J., Candel E., Coloma A.,  
 "Nucleotide sequence of a cDNA encoding ribosomal acidic  
 phosphoprotein P1 from Dictyostelium discoideum: identification of a  
 novel carboxy-terminal sequence in 'A' proteins.",  
 Nucleic Acids Res. 19:1340-1340(1991).  
 !- FUNCTION: PLAYS AN IMPORTANT ROLE IN THE ELONGATION STEP OF  
 PROTEIN SYNTHESIS.  
 !- SUBUNIT: P1 AND P2 EXIST AS DIMERS AT THE LARGE RIBOSOMAL  
 SUBUNIT.  
 !- SIMILARITY: BELONGS TO THE L12P FAMILY OF RIBOSOMAL PROTEINS.  
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 EMBL; X56193; CAA39656.1; -;  
 PIR; S14013; R6D0P1.  
 DictyDB; DD01030; -;  
 InterPro; IPR001813; 60S\_Ribosomal.  
 Pfam; PF00428; 60S\_Ribosomal; 1.  
 Ribosomal protein.  
 SEQUENCE 113 AA; 11704 MW; D800B32325BAC301 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 27;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 577 AATSAAA 583  
 |||||  
 DB 78 AATSAAA 84  
 RESULT 21  
 CH15 DROVI  
 ID CH15 DROVI STANDARD; PRT; 116 AA.  
 AC P13424;  
 DT 01-JAN-1990 (Rel. 13, Created)  
 DT 01-JAN-1990 (Rel. 13, Last sequence update)  
 DT 01-FEB-1996 (Rel. 33, Last annotation update)  
 DE Chorion protein S15.  
 GN CP15 OR S15.  
 OS Drosophila virilis (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Sphingidae; Drosophilidae; Drosophila.  
 NCBI\_TaxID=7244;  
 [1]  
 SEQUENCE FROM N.A.  
 MEDLINE=86297142; PubMed=3136055;  
 Martinez-Cruzado J.C., Swimmer C., Fenerjian M.G., Kafatos P.C.,  
 "Evolution of the autosomal chorion locus in Drosophila. I. General  
 organization of the locus and sequence comparisons of genes s15 and  
 s19 in evolutionary distant species.",  
 Genetics 119:663-677(1988).  
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EMBL; X53421; CAA37501.1; --  
 PIR; S06614; S06614.  
 FlyBase; FBgn0013068; Dmir\Op15.  
 InterPro; IPR005649; Chorion\_2.  
 Pfam; PF03964; Chorion\_2; 1.  
 Choriion.  
 SEQUENCE 116 AA; 11990 MW; 8PB7E77C97E75777 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 116;  
 Best Local Similarity 100.0%; Pred. No. 28;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

36 AAAASAG 42  
 |||||  
 77 AAAASAG 93

# RESULT 22

RS1A ARATH STANDARD; PRT; 129 AA.  
 P22758;  
 01-NOV-1995 (Rel. 32, Created)  
 01-NOV-1995 (Rel. 32, Last sequence update)  
 28-FEB-2003 (Rel. 41, Last annotation update)  
 40S ribosomal protein S15A.  
 RPS15A OR AT1G07770 OR P2489.12.  
 Arabidopsis thaliana (Mouse-ear cress).  
 Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
 eurosids II; Brassicales; Brassicaceae; Arabidopsi.  
 NCBI\_TaxID=3702;  
 [1]  
 SEQUENCE FROM N.A.  
 STRAIN=cv. Columbia;  
 MEDLINE=95062748; PubMed=7972526;  
 Bonham-Smith P.C., Moloney M.M.;  
 "Nucleotide and protein sequences of a cytoplasmic ribosomal protein  
 S15a gene from Arabidopsis thaliana."  
 Plant Physiol. 106:401-402(1994).  
 [2]  
 SEQUENCE FROM N.A.  
 STRAIN=cv. Columbia;  
 Chen Z., Bonham-Smith P.C.;  
 Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.  
 [3]  
 SEQUENCE FROM N.A.  
 STRAIN=cv. Columbia;  
 MEDLINE=21016719; PubMed=11130712;  
 Theologis A., Ecker J.R., Palm C.J., Federspiel N.A., Kaul S.,  
 White O., Alonso J., Altsch F., Araujo R., Bowman C.L., Brooks S.V.,  
 Buehler E., Chan A., Chao Q., Chen H., Cheuk R.P., Chin C.W.,  
 Chung M.K., Conn L., Conway A.B., Creasy T.H., Dewar K.,  
 Dunn P., Etgu P., Feldblyum T.V., Feng J.-D., Fong B., Fujii C.Y.,  
 Gill J.R., Goldsmith A.D., Haas B., Hansen N.F., Hughes S., Huizar L.,  
 Hunter J.L., Jenkins J., Johnson-Hopson C., Khan S., Khaykin E.,  
 Kim C.J., Koo H.L., Krenetskaia I., Kurtz D.B., Kwan A., Lam B.,  
 Langin-Hooper S., Lee A., Lee J.M., Lenz C.A., Li J.H., Li Y.-P.,  
 Lin X., Liu S.X., Liu Z.A., Luros J.S., Maiti R., Marziali A.,  
 Mitscher J., Miranda M., Nguyen M., Nierman W.C., Osborne B.I.,  
 Pai G., Peterson J., Pham P.K., Rizzo M., Rooney T., Rowley D.,  
 Sakano H., Salzberg S.L., Schwartz J.R., Shinn P., Southwick A.M.,  
 Sun H., Tallon L.J., Tambunga G., Toriumi M.J., Town C.D.,  
 Utterback T., Van Aken S., Vayberg M., Vysotskaia V.S., Walker M.,  
 Wu D., Xu G., Fraser C.M., Venter J.C., Davis R.W.;  
 "Sequence and analysis of chromosome 1 of the plant Arabidopsis  
 thaliana."  
 Nature 408:816-820(2000).  
 [4]  
 SEQUENCE FROM N.A.

RC STRAIN=cv. Columbia;  
 Yamada K., Liu S.X., Sakano H., Pham P.K., Banh J., Etgu P., Lee J.M.,  
 Toriumi M., Yu G., Brooks S., Chao Q., Chen H., Karlin-Neumann G.,  
 Kim C., Lam B., Miranda M., Nguyen M., Palm C.J., Shinn P.,  
 Southwick A., Davis R.W., Ecker J.R., Theologis A.;  
 "Full length cDNA of gene P2489.12 (GI:8439890).";  
 Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.  
 CC -|- SUBCELLULAR LOCATION: Cytoplasmic.  
 CC -|- SIMILARITY: BELONGS TO THE S8P FAMILY OF RIBOSOMAL PROTEINS.  
 CC  
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 or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).

EMBL; L27461; AAA61608.1; --  
 DR EMBL; AF001412; BAB58750.1; --  
 DR EMBL; AC007583; AAF75076.1; --  
 DR EMBL; AF332447; AAG48810.1; --  
 DR PIR; B86213; B86213.  
 DR InterPro; IPR000630; Ribosomal S8.  
 DR Pfam; PF0410; Ribosomal S8; 1.  
 DR ProDom; PD001098; Ribosomal S8; 1.  
 DR PROSITE; PS00053; RIBOSOMAL\_S8; 1.  
 KW Ribosomal protein.  
 FT INIT MET 0 BY SIMILARITY.  
 SQ SEQUENCE 129 AA; 14673 MW; 85F3D345A25507A1 CRC64;  
 1.1%; Score 7; DB 1; Length 129;  
 Query Match 100.0%; Pred. No. 30;  
 Best Local Similarity 100.0%;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406  
 |||||  
 DB 2 RISVLND 8

RESULT 23  
 RS1A BRANA STANDARD; PRT; 129 AA.  
 AC Q00332; Q04368;  
 DT 01-DEC-1992 (Rel. 24, Created)  
 DT 01-FEB-1995 (Rel. 31, Last sequence update)  
 DT 01-NOV-1997 (Rel. 35, Last annotation update)  
 DE 40S ribosomal protein S15A (PPCB8).  
 GN RPS15A.  
 OS Brassica napus (Rape).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Brassica.  
 OX NCBI\_TaxID=3708;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=cv. Westar; TISSUE=Meristem;  
 MEDLINE=92525812; PubMed=1581568;  
 RA Bonham-Smith P.C., Oancia T.L., Moloney M.M.;  
 "Cytoplasmic ribosomal protein S15a from Brassica napus: molecular  
 cloning and developmental expression in mitotically active tissues."  
 Plant Mol. Biol. 18:909-919(1992).  
 RL  
 CC -|- SUBCELLULAR LOCATION: Cytoplasmic.  
 CC -|- SIMILARITY: BELONGS TO THE S8P FAMILY OF RIBOSOMAL PROTEINS.  
 CC  
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DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last annotation update)
DE 40S Ribosomal protein S22 (S15A).
GN RPS22 OR RPS15A.
OS Agaricus bisporus (Common mushroom).
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;
OC Agaricales; Agaricaceae; Agaricus.
OX NCBI_TaxID=5341;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=Horst U1;
RX MEDLINE=95339207; PubMed=7614376;
DE Schaap P.J., de Groot P.W.J., Mueller Y., van Griensven L.J.L.D.,
RA Visser J.;
RT "Molecular cloning and sequence of the cytoplasmic ribosomal protein
RL S15a gene from Agaricus bisporus.";
EX Exp. Mycol. 19:160-162(1995).
CC -1- SIMILARITY: BELONGS TO THE S8P FAMILY OF RIBOSOMAL PROTEINS.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: X79405; CAA55942.1;
CC HSPF; P24319; IAN7.
DR InterPro: IPR000630; Ribosomal_S8.
DR Pfam: PF00410; Ribosomal_S8; 1.
DR ProDom: PD001098; Ribosomal_S8; 1.
DR PROSITE: PS00053; RIBOSOMAL_S8; 1.
KW Ribosomal protein.
SQ SEQUENCE 130 AA; 14710 MW; 32561EC17A70B4C7 CRC64;

Query Match 1.18; Score 7; DB 1; Length 130;
Best Local Similarity 100.0%; Pred. NO. 30;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9
|||||
|||||

RESULT 26
RUVG BRUME
ID RUVG BRUME STANDARD; PRT; 173 AA.
AC Q8YV7;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Crossover junction endodeoxyribonuclease ruvc (EC 3.1.22.4) (Holliday
DE junction nuclease ruvc) (Holliday junction resolvase ruvc).
GN RUVG OR BWEI0332.
OS Brucella melitensis.
OS Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
OC Brucellaceae; Brucella.
OX NCBI_TaxID=29459;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=16M / ATCC 23456 / Biotype 1;
RX MEDLINE=20020109; PubMed=1756688;
DE DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Mijer C., Los T.,
RA Ivanova N., Anderson I., Bhattacharya A., Lykidis A., Reznik G.,
RA Jablonksi L., Larsen N., D'Souza M., Bernal A., Mazur M., Goltzman E.,
RA Selkova E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J.,
RA Haselkorn R., Kyriades N., Overbeek R.;
RT "The genome sequence of the facultative intracellular pathogen
RT Brucella melitensis.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).
CC -1- FUNCTION: Nuclease that resolves Holliday junction intermediates
CC in genetic recombination. Cleaves the cruciform structure in

```

supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5' terminal phosphate and a 3' terminal hydroxyl group (By similarity).

-1- CATALYTIC ACTIVITY: Endonucleolytic cleavage at a junction such as a reciprocal single-stranded crossover between two homologous DNA duplexes (Holliday junction).

-1- COFACTOR: Binds 1 magnesium ion per subunit (By similarity).

-1- SIMILARITY: BELONGS TO THE RUVF FAMILY.

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EMBL; AE009475; AAL51513.1; -  
 PIR; AF3293; AF3293; 1;  
 HAMAP; MF\_00034; 1;  
 InterPro; IPR002176; RUVF.  
 Pfam; PF02075; RuvC; 1.  
 PRINTS; PR00696; RSOLVASRUC.  
 ProDom; PD008333; RuvC; 1.  
 TIGRFAMs; TIGR00228; RuvC; 1.  
 PROSITE; PS01321; RUVF; FALSE NEG.  
 Hydrolase; Nuclease; DNA repair; DNA recombination; Magnesium; Complete proteome.

Complete proteome.  
 METAL 11 11 MAGNESIUM (BY SIMILARITY).  
 METAL 71 71 MAGNESIUM (BY SIMILARITY).  
 METAL 143 143 MAGNESIUM (BY SIMILARITY).  
 METAL 146 146 MAGNESIUM (BY SIMILARITY).  
 SEQUENCE 173 AA; 18455 MW; C1CF7EAF34FF2P42 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 173;  
 Best Local Similarity 100.0%; Pred. No. 39;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 622 SLGNSLH 628  
 b 24 SLGNSLH 30  
 |||||

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RESULT 27  
 ISS AZOBR STANDARD; PRT; 192 AA.  
 C P18785;  
 T 01-NOV-1990 (Rel. 16, Created)  
 T 01-AUG-1992 (Rel. 23, Last sequence update)  
 T 28-FEB-2003 (Rel. 41, Last annotation update)  
 E Imidazole glycerol phosphate synthase subunit hish (EC 2.4.2.-) (IGP synthase glutamine amidotransferase subunit) (IGP synthase subunit hish) (ImGP synthase subunit hish) (IGPS subunit hish).  
 N HISH.  
 S Azospirillum brasilense.  
 C Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales;  
 C Rhodospirillaceae; Azospirillum.  
 K NCBI\_TaxID=192;  
 N [1]  
 P SEQUENCE FROM N.A.  
 C STRAIN=SP6;  
 X MEDLINE=89333560; PubMed=2664449;  
 A Fani R., Bazzicalupo M., Damiani G., Bianchi A., Schipani C., Sgarbetta V., Polsinelli M.;  
 A "Cloning of histidine genes of Azospirillum brasilense: organization of the ASH gene cluster and nucleotide sequence of the hish gene."; Mol. Gen. Genet. 236:224-229 (1999).  
 C -1- FUNCTION: IGPS catalyzes the conversion of PREP and glutamine to IGP, AICAR and Glutamate. The hish subunit provides the glutamine amidotransferase activity that produces the ammonia necessary to hish for the synthesis of IGP and AICAR (By similarity).  
 C -1- CATALYTIC ACTIVITY: 5-[(5-phospho-1-deoxyribulose-1-

ylaminomethylidenamino)-1-(5-phosphoribosyl)imidazole-4-carboxamide + L-glutamine = imidazole-glycerol phosphate + 5-aminoimidazole-4-carboxamide ribonucleotide + L-glutamate + H(2)O.

-1- PATHWAY: Histidine biosynthesis; fifth step.

-1- SUBUNIT: Heterodimer of hish and hisP (By similarity).

-1- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).

-1- SIMILARITY: Contains 1 type-1 glutamine amidotransferase domain.

-1- CAUTION: Compared to other hish it lacks an internal segment that normally contains the Cys active site residue.

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EMBL; X17435; CAA35479.1; -  
 EMBL; X61207; CAA43516.1; -  
 PIR; S16799; PR0007.  
 HAMAP; MF\_00278; atypical; 1.  
 InterPro; IPR000991; GATase\_1.  
 Pfam; PF00117; GATase; 1.  
 PROSITE; PS00442; GATASE\_TYPE\_I; FALSE NEG.  
 DR Histidine biosynthesis; Transferase; Glutamine amidotransferase.  
 KW ACT SITE 172 BY SIMILARITY.  
 FT ACT SITE 174 BY SIMILARITY.  
 FT ACT SITE 174 BY SIMILARITY.  
 SQ SEQUENCE 192 AA; 20826 MW; AB07AB18A14257B9 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 192;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 64 RGLSEVP 70  
 Db 62 RGLSEVP 68  
 |||||

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RESULT 28  
 Y002 RHIME STANDARD; PRT; 199 AA.  
 ID Y002 RHIME STANDARD; PRT; 199 AA.  
 AC Q92TE1;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Maf-like protein R00002.  
 GN R00002 OR SMC02792.  
 OS Rhizobium meliloti (Sinorhizobium meliloti).  
 CC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
 CC Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium.  
 CX NCBI\_TaxID=382;  
 FN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=1021;  
 RX MEDLINE=21396507; PubMed=11481430;  
 RA Capela D., Barloy-Hubler F., Gouzy J., Bothe G., Ampe F., Batut J., Boistard P., Becker A., Boutry M., Cadieu B., Dreano S., Gloux S., Godrie T., Goffeau A., Kahn D., Kiss E., Lelaure V., Masuy D., Pohl T., Portetelle D., Puehler A., Purnelle B., Ramsberger U., Renard C., Thebault P., Vandenbol M., Weidner S., Gallibert F.;  
 RA "Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021"; Proc. Natl. Acad. Sci. U.S.A. 98:9877-9882 (2001).  
 RT -1- SUBCELLULAR LOCATION: Cytoplasmic (Potential).  
 CC -1- SIMILARITY: BELONGS TO THE MAF FAMILY.

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CC or send an email to license@isb-sib.ch).

CC EMBL; AL591782; CAC41389.1; -.

DR HAMAP; MF\_00528; -; 1.

DR InterPro; IPR003697; Maf.

DR Pfam; PF02545; Maf; 1.

DR TIGRFAMs; TIGR00172; maf; 1.

KW Complete proteome. 34 POTENTIAL.

FT ACT\_SITE 34

SQ SEQUENCE 199 AA; 21552 MW; 3CD5BE35283BC801 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 199;

Best Local Similarity 100.0%; Pred.No. 44;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 146 LSKREL 152

DB 188 LSKREL 194

|||||

RESULT 29

REL\_PROAT

ID\_PRL\_PROAT STANDARD; PRT; 200 AA.

AC P33091;

DT 01-OCT-1993 (Rel. 27, Created)

DT 01-OCT-1993 (Rel. 27, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Prolactin (PRL).

GN PRL.

OS Protocterus aethiopicus (Marbled lungfish).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Dipnoi; Lepidosireniformes; Protopterygidae; Protopterus.

OX NCBI\_TaxID=7886;

RN [1]\_

RP SEQUENCE.

RC TISSUE=Pituitary;

RX MEDLINE=93320105; PubMed=8329446;

RA Noso T.; Nicoll C.S.; Kawachi H.;

RT "Lungfish prolactin exhibits close tetrapod relationships.";

RL Biochim. Biophys. Acta 1164:159-165(1993).

CC - - SUPRACELLULAR LOCATION: Secreted.

CC - - TISSUE SPECIFICITY: PITUITARY GLANDS.

CC - - SIMILARITY: BELONGS TO THE SOMATOTROPIN/PROLACTIN FAMILY.

CC HSP; Q28632; IAN3.

DR InterPro; IPR001400; Somatotropin.

DR Pfam; PF00103; Hormone; 1.

DR PROSITE; PS00266; SOMATOTROPIN\_1; 1.

DR PROSITE; PS00338; SOMATOTROPIN\_2; 1.

KW Hormone; Pituitary.

FT DISULFID 4 11 BY SIMILARITY.

FT DISULFID 59 175 BY SIMILARITY.

FT DISULFID 192 200 BY SIMILARITY.

FT VARIANT 22 22 R -> F.

FT VARIANT 41 41 F -> G.

SQ SEQUENCE 200 AA; 22904 MW; BBBA399B300443B CRC64;

Query Match 1.1%; Score 7; DB 1; Length 200;

Best Local Similarity 100.0%; Pred.No. 44;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 SEVPQGI 73

DB 101 SEVPQGI 107

|||||

RESULT 30

RL14 RAT

ID RL14 RAT STANDARD; PRT; 213 AA.

AC Q63507;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 01-NOV-1997 (Rel. 35, Last annotation update)

DE 60S ribosomal protein L14.

GN

OS

OC

OC

OX

RN

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RC

RX

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RPL14.

Rattus norvegicus (Rat).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

NCBI\_TaxID=10116;

SEQUENCE FROM N.A., AND SEQUENCE OF 1-40 AND 119-141.

STRAIN=Sprague-Dawley; TISSUE=Liver;

MEDLINE=96222520; PubMed=8670222;

Chan Y.-L., Olivera J., Wool I.G.;

"The primary structure of rat ribosomal protein L14.";

Biochem. Biophys. Res. Commun. 222:427-431(1996).

- - SIMILARITY: BELONGS TO THE L14E FAMILY OF RIBOSOMAL PROTEINS.

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EMBL; X94242; CAA63926.1; -.

PIR; JC4808; JC4808.

InterPro; IPR005824; KOW.

InterPro; IPR002784; Ribosomal\_L14e.

Pfam; PF00467; KOW; 1.

Pfam; PF01929; Ribosomal\_L14e; 1.

Ribosomal protein; Repeat.

INIT MET 0

DOMAIN 159 188 4 X 5 AA TANDEM REPEATS OF Q-X-A-[AS]-X.

REPEAT 159 173 1-1.

REPEAT 174 178 1-2.

REPEAT 179 183 1-3.

REPEAT 184 188 1-4.

DOMAIN 192 197 2 X 3 AA TANDEM REPEATS OF K-G-Q.

REPEAT 192 194 2-1.

REPEAT 195 197 2-2.

SEQUENCE 213 AA; 23207 MW; EL4856D6C70A1A44 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 213;

Best Local Similarity 100.0%; Pred.No. 47;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AIAAAAA 39

DB 147 AIAAAAA 153

|||||

RESULT 31

LEF2\_NPVLD

ID LEF2\_NPVLD STANDARD; PRT; 216 AA.

AC P36869; Q90119;

DT 01-JUN-1994 (Rel. 29, Created)

DT 15-DEC-1998 (Rel. 37, Last sequence update)

DT 15-DEC-1998 (Rel. 37, Last annotation update)

DE Late expression factor 2.

GN LEF-2.

OS Lymantria dispar multicapsid nuclear polyhedrosis virus (LCMPV).

OC Viruses; dsDNA viruses, no RNA stage; Baculoviridae;

OC Nucleopolyhedrovirus.

NCBI\_TaxID=10449;

[1]

SEQUENCE FROM N.A.

MEDLINE=92300345; PubMed=1607868;

Bjoernson R.M., Rohmann G.F.;

"Nucleotide sequence of the polyhedron envelope protein gene region

of the Lymantria dispar nuclear polyhedrosis virus.";

J. Gen. Virol. 73:1499-1504(1992).

[2]

REVIEWS.

Rohmann G.F.;

Submitted (SEP-1994) to the EMBL/GenBank/DBJ databases.





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DR EMBL; AF026397; AAB94604.1; -.
DR EMBL; AF005814; CRA06713.1; -.
DR EMBL; AC004080; -. NOT ANNOTATED_CDS.
DR EMBL; AF032095; AAD01939.2; -.
DR EMBL; U92543; AAD00727.1; -.
DR EMBL; X84803; CA859270.1; -.
DR EMBL; X84804; CA859270.1; JOINED.
DR EMBL; S15536; S15536.
DR HSSP; P02833; 9ANT.
DR TRANSFAC; T01705; -.
DR Genew; HGNC:5108; HOXA7.
DR MIM; 142950; -.
DR GO; GO:0003700; E-transcription factor activity; TAS.
DR InterPro; IPR001827; Antennapedia.
DR Pfam; PF00046; homeobox; 1.
DR PRINTS; PR0025; ANTENNAPEDIA.
DR PRINTS; PR00024; HOMEBOX.
DR ProDom; PD000010; Homeobox; 1.
DR SMART; SM00389; HOX; 1.
DR PROSITE; PS00032; ANTENNAPEDIA; 1.
DR PROSITE; PS00027; HOMEBOX_1; 1.
DR PROSITE; PS00071; HOMEBOX_2; 1.
DR Homeobox; DNA-binding; Developmental protein; Nuclear protein;
KW Homeobox; DNA-binding; Developmental protein; Nuclear protein;
KW Transcription regulation.
FT SITE 119 124 ANTP-TYPE HEXAPEPTIDE.
FT DNAS_BIND 130 189 HOMEBOX.
FT DOMAIN 157 160 POLY-ARG.
FT DOMAIN 196 199 POLY-ALA.
FT DOMAIN 214 230 ASP/GLU-RICH (HIGHLY ACIDIC).
FT DOMAIN 223 230 POLY-GLU.
FT CONFLICT 18 18 T -> A (IN REF. 3).
FT CONFLICT 75 76 DA -> RR (IN REF. 6).
FT CONFLICT 78 78 MISSING (IN REF. 5).
FT CONFLICT 174 174 I -> V (IN REF. 4).
FT CONFLICT 194 195 FT -> RL (IN REF. 5).
FT CONFLICT 195 195 T -> I (IN REF. 7).
FT CONFLICT 222 222 D -> Y (IN REF. 5).
SQ SEQUENCE 230 AA; 25385 MW; 6B2F199F1BBED21 CRC64;
```

Query Match 1.1%; Score 7; DB 1; Length 230;

Best Local Similarity 100.0%; Pred.No. 50; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAA 586  
Db 206 SAAATAA 212

RESULT 34

```
VTMVLAMBD ID VMTV LAMBD STANDARD; PRT; 246 AA.
AC P03733;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DE Major tail protein V.
GN V.
OS Bacteriophage lambda.
OC Viruses; dsDNA viruses, no RNA stage; Caudovirales; Siphoviridae;
OC Lambda-like viruses.
CX NCBI_TaxID=10710;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=83189071; PubMed=6221115;
RA Sanger F., Coulson A.R., Hong G.F., Hill D.F., Petersen G.B.;
RT "Nucleotide sequence of bacteriophage lambda DNA.";
RL J. Mol. Biol. 162:729-773(1982).
CC -!- FUNCTION: GENE V PROTEIN IS THE MAJOR COMPONENT OF THE TAIL. IT
CC MAKES UP THE TUBULAR PORTION OF THE TAIL, WHICH IS COMPOSED OF
CC ABOUT 32 HEXAMERIC DISCS. THERE ARE 135-212 COPIES OF GENE V
CC PROTEIN PER MATURE PHAGE.
CC
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; J02459; AAB96545.1; -.
DR PIR; D43008; TLBPVL.
DR InterPro; IPR003343; Big_2.
DR Pfam; PF02368; Big_2; 1.
DR SMART; SM00635; BiD_2; 1.
DR SQU SEQUENCE 246 AA; 25810 MW; 359B2124FF2B80CB CRC64;
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Query Match 1.1%; Score 7; DB 1; Length 246;

Best Local Similarity 100.0%; Pred.No. 53; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
Db 155 RSTVTAA 161

RESULT 35

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GPH_SALTI ID -GPH_SALTI STANDARD; PRT; 252 AA.
AC Q82202;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Phosphoglycolate phosphatase (EC 3.1.3.18) (pgp).
GN GPH OR STY4314 OR T4025.
OS Salmonella typhi.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=601;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CT18;
EX MEDLINE=21534947; PubMed=11677608;
RA Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
RA Churcher C., Mungall K.L., Bentley S.D., Holden M.T.G., Sebaihia M.,
RA Baker S., Basham D., Brooks K., Chillingworth T., Connor P.,
RA Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J.,
RA Feltwell T., Hamlin N., Haque A., Hien T.T., Holroyd S., Jagels K.,
RA Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C.,
RA Quail M., Rutherford K., Simmonds M., Skelton J., Stevens K.,
RA Whitehead S., Barrall B.G.;
RT "Complete genome sequence of a multiple drug resistant Salmonella
RT enterica serovar Typhi CT18.";
RL Nature 413:848-852(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Ty2 / ATCC 700931;
EX MEDLINE=2553367; PubMed=12644504;
RA Deng W., Liou S.-R., Plunkett G. III, Mayhew G.F., Rose D.J.,
RA Burland V., Kodoyanni V., Schwartz D.C., Blattner F.R.;
RT "Comparative genomics of Salmonella enterica serovar Typhi strains Ty2
RT and CT18.";
RL J. Bacteriol. 185:2330-2337(2003).
CC -!- CATALYTIC ACTIVITY: 2-phosphoglycolate + H(2)O = glycolate +
CC phosphate.
CC -!- SIMILARITY: BELONGS TO THE CBBY/CBBZ/GPH/YIEH FAMILY.
CC -----
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DR EMBL; AL627281; CAD08132.1; -
DR EMBL; AE016347; A0171494.1; -
DR HAMAP; MF 00495; -; 1.
DR InterPro; IPR006402; HAD-SF-IA-v3.
DR InterPro; IPR006439; HAD_SF_A_v1.
DR InterPro; IPR005833; Hlg_nase/Hydriase.
DR InterPro; IPR005834; Hydrolase.
DR InterPro; IPR006346; PGP_bact.
DR Pfam; PF00702; Hydrolase; 1.
DR PRINTS; PR00413; HADHALOGNASE.
DR TIGRFAMs; TIGR01549; HAD-SF-IA-v1; 1.
DR TIGRFAMs; TIGR01509; HAD-SF-IA-v3; 1.
DR TIGRFAMs; TIGR01449; PGP_bact; 1.
DR Carbohydrate metabolism; Hydrolase; Complete proteome.
T CONFLICT 100 100 X -> R (IN REF. 2).
Q SEQUENCE 252 AA; 27250 MW; BD01BFD69B6ED373 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 252;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 571 VDEDIPA 577
| | | | |
b 81 VDEDIPA 87

RESULT 36
PH_SALTY STANDARD; PRT; 252 AA.
AC Q8ZLK5;
VT 28-FEB-2003 (Rel. 41, Created)
VT 28-FEB-2003 (Rel. 41, Last sequence update)
VT 28-FEB-2003 (Rel. 41, Last annotation update)
VE Phosphoglycolate phosphatase (EC 3.1.3.18) (PGP).
RN GPH OR SM3482.
IS Salmonella typhimurium.
C Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
C Enterobacteriaceae; Salmonella.
X NCBI_TaxID=602;
N [1]
P SEQUENCE FROM N.A.
C STRAIN=LT2 / SGSC1412 / ATCC 700720;
X MEDLINE=21534948; PubMed=11677609;
A McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P.,
A Courtney L., Porwollik S., Ali J., Dante M., Du P., Hou S., Layman D.,
A Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E.,
A Ryan E., Sun H., Florescu L., Miller W., Stoneking T., Nhan M.,
A Waterston R., Wilson R.K.;
T "Complete genome sequence of Salmonella enterica serovar Typhimurium
T LT2."
L Nature 413:852-856(2001).
C -!- CATALYTIC ACTIVITY: 2-phosphoglycolate + H(2)O = glycolate +
C phosphate.
C -!- SIMILARITY: BELONGS TO THE CBBY/CBBZ/GPH/YIEH FAMILY.
C
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C
C EMBL; AE008860; AAL22344.1; -
C HAMAP; MF 00495; -; 1.
C InterPro; IPR006402; HAD-SF-IA-v3.
C InterPro; IPR006439; HAD_SF_A_v1.
C InterPro; IPR005833; Hlg_nase/Hydriase.
C InterPro; IPR005834; Hydrolase.
C Pfam; PF00702; Hydrolase; 1.
C PRINTS; PR00413; HADHALOGNASE.

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DR TIGRFAMs; TIGR01549; HAD-SF-IA-v1; 1.
DR TIGRFAMs; TIGR01509; HAD-SF-IA-v3; 1.
DR TIGRFAMs; TIGR01449; PGP_bact; 1.
DR Carbohydrate metabolism; Hydrolase; Complete proteome.
SQ SEQUENCE 252 AA; 27303 MW; 1216F19E6D086B97 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 252;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 571 VDEDIPA 577
| | | | |
Db 81 VDEDIPA 87

RESULT 37
Y351 CAUCR STANDARD; PRT; 254 AA.
AC Q9AB80;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Putative outer membrane protein CC0351 precursor.
GN CC0351.
OS Caulobacter crescentus.
OC Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacteriales;
OC Caulobacteraceae; Caulobacter.
OX NCBI_TaxID=155892;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=ATCC 19089 / CB15;
RX MEDLINE=21173698; PubMed=11259647;
RA Nierman W.C., Feldblyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,
RA Eisen J., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,
RA Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B.,
RA DeBoy R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H.,
RA Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,
RA Ueberlack T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O.,
RA Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.;
RT "Complete genome sequence of Caulobacter crescentus."
RL Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).
CC -!- SUBCELLULAR LOCATION: Outer membrane (Potential).
CC -!- SIMILARITY: BELONGS TO THE MIPA/OMPV FAMILY.
C
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C
C EMBL; AE005708; AAK22338.1; -
C PIR; F87292; F87292.
C TIGR; CC0351; -
C
C Hypothetical protein; Outer membrane; Signal; Complete proteome.
FT SIGNAL 1 26 POTENTIAL.
FT CHAIN 27 254 PUTATIVE OUTER MEMBRANE PROTEIN CC0351.
SQ SEQUENCE 254 AA; 26231 MW; E946D22C14A13657 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 254;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 577 AATSAAA 583
| | | | |
Db 20 AATSAAA 26

RESULT 38
DAPF HELPJ STANDARD; PRT; 273 AA.
ID DAPF HELPJ
AC Q9ZLE5;

```

DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diaminopimelate epimerase (EC 5.1.1.7) (DAP epimerase).  
 GN DAPF OR JHP0513.  
 OS Helicobacter pylori J99 (Campylobacter pylori J99).  
 OC Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales;  
 OC Helicobacteraceae; Helicobacter.  
 OX NCBI\_TaxID=85963;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99120557; PubMed=9923692;  
 RA Alm R.A., Ling L.-S.L., Moir D.T., King B.L., Brown E.D., Doig P.C.,  
 RA Smith D.R., Noonan B., Guild B.C., deJonge B.L., Carmel G.,  
 RA Tummino P.J., Caruso A., Uria-Nickelsen M., Mills D.M., Ives C.,  
 RA Gibson R., Merberg D., Mills S.D., Jiang Q., Taylor D.E., Vovis G.F.,  
 RA Trust T.J.;  
 RT "Genomic sequence comparison of two unrelated isolates of the human  
 RT gastric pathogen Helicobacter pylori.";  
 RL Nature 397:176-180(1999).  
 CC -!- CATALYTIC ACTIVITY: LL-2,6-diaminoheptanedioate = meso-  
 CC diaminoheptanedioate.  
 CC -!- PATHWAY: Biosynthesis of lysine from aspartate semialdehyde; sixth  
 CC step.  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).  
 CC -!- SIMILARITY: Belongs to the diaminopimelate epimerase family.  
 CC  
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 CC  
 CC EMBL; AEO01484; AAD05089.1; -;  
 DR PIR; G71923; G71923.  
 DR HAMAP; MF 00197; -; 1.  
 DR InterPro; IPR001653; DAP epimerase.  
 DR Pfam; PF01678; DAP epimerase; 2.  
 DR TIGRFAMS; TIGR00652; DapF; 1.  
 DR PROSITE; PS01326; DAP\_EPIMERASE; 1.  
 KW Isomerase; Lysine biosynthesis; Complete proteome.  
 FT ACT SITE 69 69 BY SIMILARITY.  
 FT ACT SITE 209 209 BY SIMILARITY.  
 SQ SEQUENCE 273 AA; 30661 MW; C63F458B833841D8 CRC64;  
  
 Query Match 1.1%; Score 7; DB 1; Length 273;  
 Best Local Similarity 100.0%; Pred.No. 58;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 QY 124 SLNTLEL 130  
 DB 165 SLNTLEL 171  
  
 RESULT 39  
 DAPF\_HELPY  
 ID\_HELPY STANDARD; PRT; 273 AA.  
 AC Q05250;  
 DT 15-DEC-1998 (Rel. 37, Created)  
 DT 15-DEC-1998 (Rel. 37, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diaminopimelate epimerase (EC 5.1.1.7) (DAP epimerase).  
 GN DAPF OR HP0566.  
 OS Helicobacter pylori (Campylobacter pylori).  
 OC Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales;  
 OC Helicobacteraceae; Helicobacter.  
 OX NCBI\_TaxID=210;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=26695 / ATCC 700392;  
 RX MEDLINE=97394467; PubMed=9252185;

RA Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G.,  
 RA Fleischmann R.D., Ketchum K.A., Klenk H.-P., Gill S., Dougherty B.A.,  
 RA Nelson K., Quackenbush J., Zhou L., Kirkness E.F., Peterson S.,  
 RA Loftus B., Richardson D., Dodson R., Khalak H.G., Glodek A.,  
 RA McKenney K., Fitzgerald L.M., Lee N., Adams M.D., Hickey E.K.,  
 RA Berg D.E., Gocayne J.D., Uterback T.R., Peterson J.D., Kelley J.M.,  
 RA Cotton M.D., Weidman J.M., Fujii C., Bowman C., Watney L., Wallin E.,  
 RA Hayes W.S., Borodovsky M., Karp P.D., Smith H.O., Fraser C.M.,  
 RA Venter J.C.;  
 RT "The complete genome sequence of the gastric pathogen Helicobacter  
 RT pylori.";  
 RL Nature 388:539-547(1997).  
 CC -!- CATALYTIC ACTIVITY: LL-2,6-diaminoheptanedioate = meso-  
 CC diaminoheptanedioate.  
 CC -!- PATHWAY: Biosynthesis of lysine from aspartate semialdehyde; sixth  
 CC step.  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).  
 CC -!- SIMILARITY: Belongs to the diaminopimelate epimerase family.  
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 CC  
 CC EMBL; AEO00570; AAD07622.1; -;  
 DR PIR; F64590; F64590.  
 DR TIGR; HP0566; -;  
 DR HAMAP; MF 00197; -; 1.  
 DR InterPro; IPR001653; DAP epimerase.  
 DR Pfam; PF01678; DAP epimerase; 2.  
 DR TIGRFAMS; TIGR00652; DapF; 1.  
 DR PROSITE; PS01326; DAP\_EPIMERASE; 1.  
 KW Isomerase; Lysine biosynthesis; Complete proteome.  
 FT ACT SITE 69 69 BY SIMILARITY.  
 FT ACT SITE 209 209 BY SIMILARITY.  
 SQ SEQUENCE 273 AA; 30500 MW; 73F3D7917AD35ACD CRC64;  
  
 Query Match 1.1%; Score 7; DB 1; Length 273;  
 Best Local Similarity 100.0%; Pred.No. 58;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 QY 124 SLNTLEL 130  
 DB 165 SLNTLEL 171  
  
 RESULT 40  
 CYCG\_RHOSH  
 ID\_CYCG\_RHOSH STANDARD; PRT; 296 AA.  
 AC Q53143;  
 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 01-NOV-1997 (Rel. 35, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diheme cytochrome C-type.  
 DE Cytochrome C-type.  
 GN CYCG.  
 OS Rhodobacter sphaeroides (Rhodospseudomonas sphaeroides).  
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales;  
 OC Rhodobacteraceae; Rhodobacter.  
 OX NCBI\_TaxID=1063;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=ATCC 17023 / 2.4.1 / NCIB 8253 / DSM 156;  
 RX MEDLINE=95362655; PubMed=7543472;  
 RA Flory J.E., Donohue T.J.;  
 RA "Organization and expression of the Rhodobacter sphaeroides *cycFG*  
 RA operon.";  
 RT J. Bacteriol. 177:4311-4320(1995).  
 CC -!- FUNCTION: DIHEME C-TYPE CYTOCHROME, THAT IS PARTICULARLY EXPRESSED  
 CC WHEN CELLS GENERATE ENERGY VIA AEROBIC RESPIRATION.  
 CC -!- SUBCELLULAR LOCATION: Membrane-bound.



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 CC -----  
 CC EMBL; X06959; CAA30029.1; -  
 CC EMBL; M26506; AAA34730.1; -  
 CC EMBL; M26506; AAA34731.1; -  
 CC EMBL; M37326; AAA34729.1; -  
 CC EMBL; D00529; BAA00415.1; -  
 CC EMBL; U19028; AAB67258.1; -  
 CC PIR; S51343; R5BYOE.  
 CC SWISS-2DPAGE; P05317; YEAST.  
 CC SGD; S0004332; RPP0.  
 CC GO; GO:0000027; P:ribosomal large subunit assembly and mainte. . .; IMP.  
 CC InterPro; IPR001813; 60s\_ribosomal.  
 CC InterPro; IPR001790; Ribosomal\_L10.  
 CC Pfam; PF00428; 60s\_ribosomal; 1.  
 CC Pfam; PF00466; Ribosomal\_L10; 1.  
 CC Ribosomal protein; Phosphorylation.  
 CC KW Ribosomal protein; Phosphorylation.  
 CC FT MOD RES 302 83 Y -> N (IN REF. 2 AND 5).  
 CC CONFLICT 83 83  
 CC SQ SEQUENCE 312 AA; 33766 MW; D5FE0F9C70C603C CRC64;  
 CC  
 CC Query Match 1.18; Score 7; DB 1; Length 312;  
 CC Best Local Similarity 100.0%; Pred. No. 66;  
 CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 CC  
 CC QY 576 PAATSAA 582  
 CC |||||  
 CC DB 278 PAATSAA 284  
 CC  
 CC RESULT 43  
 CC HXAB MOUSE  
 CC ID HXAB MOUSE STANDARD; PRT; 313 AA.  
 CC AC P31311.  
 CC DT 01-JUL-1993 (Rel. 26, Created)  
 CC DT 01-OCT-1996 (Rel. 34, Last sequence update)  
 CC DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 CC DE Homeobox protein Hox-A11 (Hox-1.9).  
 CC GN HOXA11 OR HOXA-11 OR HOX-1.9.  
 CC OS Mus musculus (Mouse).  
 CC OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CC OX NCBI\_TaxID=10090;  
 CC RN [1]  
 CC RP SEQUENCE FROM N.A.  
 CC RX MEDLINE=95309120; PubMed=7789268;  
 CC RA Hsieh-Li H.M., Witte D.P., Weinstein M., Branford W., Li H., Small K.,  
 CC RA Potter S.S.;  
 CC RT "Hoxa 11 structure, extensive antisense transcription, and function  
 CC RT in male and female fertility.";  
 CC RL Development 121:1373-1385(1995).  
 CC RN [2]  
 CC RP SEQUENCE OF 241-300 FROM N.A.  
 CC RX MEDLINE=92073356; PubMed=1683707;  
 CC RA Singh G., Kaur S., Stock J.L., Jenkins N.A., Gilbert D.J.,  
 CC RA Copeland N.G., Potter S.S.;  
 CC RT "Identification of 10 murine homeobox genes.";  
 CC RL Proc. Natl. Acad. Sci. U.S.A. 88:10706-10710(1991).  
 CC CC -!- FUNCTION: SEQUENCE-SPECIFIC TRANSCRIPTION FACTOR WHICH IS PART OF  
 CC A DEVELOPMENTAL REGULATORY SYSTEM THAT PROVIDES CELLS WITH  
 CC SPECIFIC POSITIONAL IDENTITIES ON THE ANTERIOR-POSTERIOR AXIS.  
 CC CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC CC -!- SIMILARITY: BELONGS TO THE HOD-B HOMEBOX FAMILY.  
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ID RLAO YEAST STANDARD; PRT; 312 AA.  
 AC P05317;  
 DT 01-NOV-1988 (Rel. 09, Created)  
 DT 01-NOV-1988 (Rel. 09, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE 60S acidic ribosomal protein P0 (L10E).  
 EN RPP0 OR RPLA0 OR RPL10E OR L10E OR YLR340W OR L8300.8.  
 OS Saccharomyces cerevisiae (Baker's yeast).  
 OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;  
 OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.  
 CC NCBI\_TaxID=4932;  
 CC [1]  
 CC SEQUENCE FROM N.A.  
 CC STRAIN=IFO 40028;  
 CC MEDLINE=88233942; PubMed=3287327;  
 CC Mitsui K., Tsunugi K.;  
 CC "cDNA and deduced amino acid sequence of 38 kDa-type acidic ribosomal  
 CC protein A0 from Saccharomyces cerevisiae.";  
 CC Nucleic Acids Res. 16:3573-3573(1988).  
 CC [2]  
 CC SEQUENCE FROM N.A.  
 CC STRAIN=SR26-12C;  
 CC MEDLINE=90130289; PubMed=2404943;  
 CC Newton C.H., Shamin L.C., Yee J., Dennis P.P.;  
 CC "A family of genes encode the multiple forms of the Saccharomyces  
 CC cerevisiae ribosomal proteins equivalent to the Escherichia coli L12  
 CC protein and a single form of the L10-equivalent ribosomal protein.";  
 CC J. Bacteriol. 172:579-588(1990).  
 CC [3]  
 CC ERRATUM.  
 CC MEDLINE=90264364; PubMed=2188966;  
 CC Newton C.H., Shamin L.C., Yee J., Dennis P.P.;  
 CC J. Bacteriol. 172:3535-3535(1990).  
 CC [4]  
 CC SEQUENCE FROM N.A.  
 CC MEDLINE=90036766; PubMed=2681177;  
 CC Mitsui K., Nakagawa T., Tsunugi K.;  
 CC "The gene and the primary structure of acidic ribosomal protein A0  
 CC from yeast Saccharomyces cerevisiae which shows partial homology to  
 CC bacterial ribosomal protein L10.";  
 CC J. Biochem. 106:223-227(1989).  
 CC [5]  
 CC SEQUENCE FROM N.A.  
 CC STRAIN=S288C / AB972;  
 CC MEDLINE=97313267; PubMed=9169871;  
 CC Johnston M., Hillier L., Riles L., Albermann K., Andre B., Ansoerge W.,  
 CC Benes V., Brueckner M., Delius H., Dubois E., Duesterhoeft A.,  
 CC Entian K.-D., Floeth M., Goffeau A., Hebling U., Heumann K.,  
 CC Heuss-Neitzel D., Hilbert H., Hilger F., Kleine K., Koetter P.,  
 CC Louis E.J., Messenguy F., Mewes H.-W., Miosga T., Moestl D.,  
 CC Mueller-Auer S., Neutwich U., Obermaier B., Piravandi E., Pohl T.M.,  
 CC Portetelle D., Purnelle B., Rechmaier S., Rieger M., Rinke M., Rose M.,  
 CC Scharfe M., Scherens B., Scholler P., Schwager C., Schwarz S.,  
 CC Underwood A.P., Urrestazu L.A., Vanderbol M., Verhasselt P.,  
 CC Vierendeels F., Voet M., Volckaert G., Voss H., Wambutt R., Wedler E.,  
 CC Wedler H., Zimmermann F.K., Zollner A., Hani J., Hoheisel J.D.;  
 CC "The nucleotide sequence of Saccharomyces cerevisiae chromosome XII.";  
 CC Nature 387:87-90(1997).  
 CC [6]  
 CC PHOSPHORYLATION SITE.  
 CC MEDLINE=91334151; PubMed=1870984;  
 CC Grabowski D.T., Deutsch W.A., Darda D., Kelley M.R.;  
 CC "Drosophila AP3, a presumptive DNA repair protein, is homologous to  
 CC human ribosomal associated protein P0.";  
 CC Nucleic Acids Res. 19:4297-4297(1991).  
 CC CC -!- FUNCTION: RIBOSOMAL PROTEIN P0 IS THE FUNCTIONAL EQUIVALENT  
 CC OF E.COLI PROTEIN L10.  
 CC CC -!- SUBUNIT: P0 FORMS A PENTAMERIC COMPLEX BY INTERACTION WITH  
 CC DIMERS OF P1 AND P2.  
 CC CC -!- SIMILARITY: BELONGS TO THE L10P FAMILY OF RIBOSOMAL PROTEINS.  
 CC  
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EMBL; U20371; AAA85711.1; -  
EMBL; U20370; AAA85710.1; -  
PIR; G37290; G37290.  
HSSP; P44533; LB72.  
TRANSFAC; TO1717; -.

MGD; MGI:96172; Hoxall.  
GO; GO:0001503; P:skeletal development; IMP.

InterPro; IPR001356; Homeobox.  
Pfam; PF00046; homeobox; 1.  
ProDom; PD000010; Homeobox; 1.  
SMART; SM00389; Hox; 1.  
PROSITE; PS00027; HOMEBOX\_1; 1.  
PROSITE; PS00071; HOMEBOX\_2; 1.  
Homeobox; DNA-binding; Developmental protein; Nuclear protein;  
Transcription regulation.

DOMAIN 172 175 POLY-ALA.  
DOMAIN 178 185 POLY-ALA.  
DOMAIN 196 201 POLY-GLY.  
DOMAIN 212 215 POLY-ARG.  
DOMAIN 218 221 POLY-SER.  
DOMAIN 241 300 HOMEBOX.  
DNA BIND 241 300 HOMEBOX.  
SEQUENCE 313 AA; 34484 MW; 07BE80F8E2225B3E CRC64;

Query Match 1.1%; Score 7; DB 1; Length 313;  
Best Local Similarity 100.0%; Pred.No. 66;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

577 MATSAAA 583  
|||||  
174 MATSAAA 180

RESULT 44

YHBU ECOLI

YHBU ECOLI STANDARD; PRT; 331 AA.

P45527;  
Q1-NOV-1995 (Rel. 32, Created)

Q1-NOV-1995 (Rel. 32, Last sequence update)

16-OCT-2001 (Rel. 40, Last annotation update)

Putative protease yhbU precursor (EC 3.4.-.-).

YHBU OR B3158.

Escherichia coli.

Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;

Enterobacteriaceae; Escherichia.

NCBI\_TaxID=562;

[1]

SEQUENCE FROM N.A.

STRAIN=K12 / MGI:655;

MEDLINE=97426617; PubMed=9278503;

Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,

Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,

Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,

Mau B., Shao Y.;

"The complete genome sequence of Escherichia coli K-12.";

Science 277:1453-1474(1997).

-!- SIMILARITY: BELONGS TO PEPTIDASE FAMILY U32.

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EMBL; U18997; AAA57961.1; -

PIR; B65106; B65106.

MEPROS; U32.UPW; -

EcoGene; EG12790; yhbU.

DR InterPro; IPR001539; Peptidase U32.  
DR Pfam; PF01136; Peptidase U32; 1.  
DR ProDom; PD004398; Peptidase U32; 1.  
DR PROSITE; PS01276; PEPTIDASE\_U32; 1.  
KW Hypothetical protein; Hydrolase; Protease; Signal; Complete proteome.  
FT SIGNAL 1 15 POTENTIAL.  
FT CHAIN 16 331 PUTATIVE PROTEASE YHBU.  
SQ SEQUENCE 331 AA; 37047 MW; 2AFDE5929C4FA7 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 331;  
Best Local Similarity 100.0%; Pred.No. 69;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 124 SLNTLEL 130

DB 251 SLNTLEL 257

RESULT 45

TISB\_HUMAN

ID TISB\_HUMAN STANDARD; PRT; 338 AA.

AC Q07352; Q13851;

DT 01-FEB-1996 (Rel. 33, Created)

DT 01-FEB-1996 (Rel. 33, Last sequence update)

DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Butyrate response factor 1 (TIS11B protein) (BGF-response factor 1)

DE (ERF-1).

GN ZFP36L1 OR BRP1 OR TIS11B OR BRP1 OR BERG36.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

OX NCBI\_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93347999; PubMed=8346037;

RA Barnard R.C., Pascall J.C., Brown K.D., McKay I.A., Williams N.S.,

RA Bustin S.A.;

RT "Coding sequence of ERF-1, the human homologue of Tis11b/CMG1,

RT members of the Tis11 family of early response genes.";

RL Nucleic Acids Res. 21:3580-3580(1993).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=94296548; PubMed=8024689;

RA Brown K.D., Leigh I.M., Williams N.S., McKay I.A.,

RT "Cloning and characterization of ERF-1, a human member of the Tis11

RT family of early-response genes.";

RL DNA Cell Biol. 13:449-459(1994).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=97054648; PubMed=8898945;

RA Ning Z.Q., Norton J.D., Li J., Murphy J.J.;

RT "Distinct mechanisms for rescue from apoptosis in Ramos human B cells

RT by signaling through CD40 and interleukin-4 receptor: role for

RT inhibition of an early response gene, Berg36.";

RL Eur. J. Immunol. 26:2356-2363(1996).

RN [4]

RP SEQUENCE FROM N.A.

RC TISSUE=Ovary.

RA MEDLINE=2238257; PubMed=12477932;

RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins P.S., Wagner L., Shennen C.M., Schuler G.D.,

RA Altschul S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gumaratne P.H.,

RA Villalón D.K., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,

RA Whitling M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,



```

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903 (2002).
CC -!- FUNCTION: PROBABLE REGULATORY PROTEIN INVOLVED IN REGULATING THE
CC RESPONSE TO GROWTH FACTORS.
CC -!- SUBCELLULAR LOCATION: Nuclear.
CC -!- SIMILARITY: Contains 2 C3H1-type zinc fingers.
CC
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CC
CC EMBL; X79066; CRA55670.1; -.
CC EMBL; X79067; CRA55670.1; JOINED.
CC EMBL; X99404; CRA67781.1; -.
CC EMBL; BC018340; AAH18340.1; -.
CC PIR; S34854; S34854.
CC Genew; HGNC:1107; ZFP361L.
CC MIM; 601064; -.
CC InterPro; IPR000571; Znf_CCCH.
CC Pfam; PF04553; Tis11B_C; 1.
CC Pfam; PF00642; zf-CCCH; 2.
CC SMART; SM00356; Znf_C3H1; 2.
CC Nuclear protein; Repeat; Metal-binding; Zinc-finger; DNA-binding.
CC ZN_FING 120 139 C3H1-TYPE 1.
CC ZN_FING 158 177 C3H1-TYPE 2.
CC DOMAIN 307 316 POLY-SER.
CC CONFLICT 63 63 H -> R (IN REF. 3).
CC SEQUENCE 338 AA; 36313 MW; 98236CD40C4531D2 CRC64;
CC
CC Query Match 1.1%; Score 7; DB 1; Length 338;
CC Best Local Similarity 100.0%; Pred. No. 70;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC
2y 580 SAAATAA 586
Db |||||
|||
209 SAAATAA 215

RESULT 46
TISB_MOUSE STANDARD; PRT; 338 AA.
AC P23950;
DT 01-MAR-1992 (Rel. 21, Created)
DT 01-MAR-1992 (Rel. 21, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Butyrate response factor 1 (TIS11B protein).
EN ZFP361L OR BRF1 OR TIS11B.
OS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
CC NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALE/C;
RX MEDLINE=91141531; PubMed=1996120;
AC P23950;
DT 01-MAR-1992 (Rel. 21, Created)
DT 01-MAR-1992 (Rel. 21, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Butyrate response factor 1 (TIS11B protein).
EN ZFP361L OR BRF1 OR TIS11B.
OS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
CC NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALE/C;
RX MEDLINE=91141531; PubMed=1996120;
RA Varnum B.C., Ma Q., Chi T., Fletcher B., Herschman H.R.;
RT "The Tis11 primary response gene is a member of a gene family that
RT encodes proteins with a highly conserved sequence containing an
RT unusual Cys-His repeat.";
RL Mol. Cell. Biol. 11:1754-1758 (1991).
CC -!- FUNCTION: PROBABLE REGULATORY PROTEIN INVOLVED IN REGULATING THE
CC RESPONSE TO GROWTH FACTORS.
CC -!- SUBCELLULAR LOCATION: Nuclear.
CC -!- SIMILARITY: Contains 2 C3H1-type zinc fingers.
CC

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CC
CC EMBL; M58566; AAA72948.1; -.
CC EMBL; MGI:107946; Zfp361L.
CC InterPro; IPR000571; Znf_CCCH.
CC Pfam; PF04553; Tis11B_C; 1.
CC Pfam; PF00642; zf-CCCH; 2.
CC SMART; SM00356; Znf_C3H1; 2.
CC Nuclear protein; Repeat; Metal-binding; Zinc-finger; DNA-binding.
CC ZN_FING 120 139 C3H1-TYPE 1.
CC ZN_FING 158 177 C3H1-TYPE 2.
CC DOMAIN 307 316 POLY-SER.
CC SEQUENCE 338 AA; 36384 MW; A28F2C8BF476496C CRC64;
CC
CC Query Match 1.1%; Score 7; DB 1; Length 338;
CC Best Local Similarity 100.0%; Pred. No. 70;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC
Qy 580 SAAATAA 586
Db |||||
|||
209 SAAATAA 215

RESULT 47
TISB_RAT STANDARD; PRT; 338 AA.
AC P17431;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Butyrate response factor 1 (TIS11B protein) [EGF-inducible protein
DE CMG1].
EN ZFP361L OR BRF1 OR TIS11B OR CMG1.
OS Rattus norvegicus (Rat).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
CC NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar;
RX MEDLINE=90325411; PubMed=1695727;
RA Comperts M., Pascall J.C., Brown K.D.;
RT "The nucleotide sequence of a cDNA encoding an EGF-inducible gene
RT indicates the existence of a new family of mitogen-induced genes.";
RL Oncogene 5:1081-1083 (1990).
CC -!- FUNCTION: PROBABLE REGULATORY PROTEIN INVOLVED IN REGULATING THE
CC RESPONSE TO GROWTH FACTORS.
CC -!- SUBCELLULAR LOCATION: Nuclear.
CC -!- INDUCTION: BY EGF.
CC -!- SIMILARITY: Contains 2 C3H1-type zinc fingers.
CC
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CC
CC EMBL; X52590; CAA36826.1; -.
CC PIR; S10471; S10471.
CC InterPro; IPR000571; Znf_CCCH.
CC Pfam; PF04553; Tis11B_C; 1.
CC Pfam; PF00642; zf-CCCH; 2.
CC SMART; SM00356; Znf_C3H1; 2.
CC Nuclear protein; Repeat; Metal-binding; Zinc-finger; DNA-binding.
CC

```



DB 259 SARATAA 265

RESULT 49  
YJ44 ARCFU  
ID YJ44 ARCFU STANDARD; PRT; 345 AA.  
AC O28335;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 16-OCT-2001 (Rel. 40, Last annotation update)  
DE Hypothetical protein AF1944.  
GN AF1944.  
OS Archaeoglobus fulgidus.  
OC Archaea; Euryarchaeota; Archaeoglobi; Archaeoglobales;  
OC Archaeoglobaceae; Archaeoglobus.  
OX NCBI\_TaxID=2234;  
RN [1]  
RP SEQUENCE FROM N.A.  
STRAIN=VC-16 / DSM 4304 / ATCC 49558;  
RX STRAIN=98049343; PubMed=9389475;  
RA Klenk H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,  
RA Ketchum K.A., Dodson R.J., Gwinn M., Hickey E.K., Peterson J.D.,  
RA Richardson D.L., Karpavich A.R., Graham D.B., Sutton G.G., Gill S.,  
RA Fleischmann R.D., Quackenbush J., Lee N.H., Smit A.M., Adams  
RA Kirkness E.F., Dougherty B.A., McKenney K., Adams M.D., Loftus B.,  
RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodek A., Zhou L.,  
RA Overbeek R., Gocayne J.D., Weidman J.F., McDonald L., Uitterback T.,  
RA Cotton M.D., Spriggs T., Artach P., Kaine B.P., Sykes S.M.,  
RA Sadow P.W., D'Andrea K.P., Bowman C., Fujii C., Garland S.A.,  
RA Mason T.M., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,  
RA Venter J.C.;  
RT "The complete genome sequence of the hyperthermophilic, sulphate-  
RT reducing archaeon Archaeoglobus fulgidus.";  
RL Nature 390:364-370(1997).  
CC -----  
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CC -----  
DR EMBL; AE000969; AAB89314.1; -  
DR PIR; G69492; G69492.  
DR TIGR; AF1944; -  
KW Hypothetical protein; Complete proteome.  
SQ SEQUENCE 345 AA; 39312 MW; D2D7634D1CE53B79 CRC64;  
Query Match 1.1%; Score 7; DB 1; Length 345;  
Best Local Similarity 100.0%; Pred.No. 72;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 175 RLDGEL 181  
DQ |||||  
DB 78 RLDGEL 84

RESULT 50  
IF35 HUMAN  
ID IF35 HUMAN STANDARD; PRT; 357 AA.  
AC O00303;  
DT 30-MAY-2000 (Rel. 39, Created)  
DT 30-MAY-2000 (Rel. 39, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE Eukaryotic translation initiation factor 3 subunit 5 (eIF-3 epsilon)  
DE (eIF3 p47 subunit) (eIF3f).  
GN EIF3F5  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]

Search completed: February 5, 2004, 16:00:50  
Job time : 21 secs

RP SEQUENCE FROM N.A.  
RC TISSUE=Liver;  
RX MEDLINE=98031678; PubMed=9341143;  
RA Asano K., Vornlocher H.-P., Richter-Cook N.J., Merrick W.C.,  
RA Hinnebusch A.G., Hershey J.W.B.;  
RT "Structure of cDNAs encoding human eukaryotic initiation factor 3  
RT subunits. Possible roles in RNA binding and macromolecular assembly.";  
RL J. Biol. Chem. 272:27042-27052(1997).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Lung;  
RX MEDLINE=22388257; PubMed=12477932;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Wuzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pahay J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length  
RT human and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -!- FUNCTION: BINDS TO THE 40S RIBOSOME AND PROMOTES THE BINDING OF  
CC METHIONYL-TRNAI AND MRNA. ASSOCIATES WITH THE COMPLEX EIF0-EIF3.  
CC -!- SUBUNIT: EIF-3 IS COMPOSED OF AT LEAST 12 DIFFERENT SUBUNITS.  
CC -!- SIMILARITY: Contains 1 MPN (JAB/Mov34) domain.  
CC -----  
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CC -----  
CC EMBL; U94855; AAD03467.1; -;  
DR EMBL; EC000490; AHH00490.1; -;  
DR Genew; HGNC:3275; EIF3B5.  
DR GK; O00303; -;  
DR MIM; 603914; -;  
DR GO; GO:0005852; C:eukaryotic translation initiation factor 3 . . . ; TAS.  
DR GO; GO:0003743; P:translation initiation factor activity; TAS.  
DR GO; GO:0006446; P:regulation of translational initiation; TAS.  
DR InterPro; IPR000555; Mov34.  
DR InterPro; IPR003640; Mov34\_2.  
DR Pfam; PF01398; Mov34; 1.  
DR ProDom; PD363422; Mov34\_1; 1.  
DR ProDom; PD005425; Mov34\_2; 1.  
DR SMART; SM00232; JAB MPN; 1.  
KW Initiation factor; Protein biosynthesis; Polymorphism.  
PT VARIANT 172 172 W> L (IN dbSNP:1044058).  
FT /FTID=VAR\_014452.  
SQ SEQUENCE 357 AA; 37564 MW; 8A70FC6E2BF07737 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 357;  
Best Local Similarity 100.0%; Pred.No. 74;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 581 AAATAAP 587  
| | | | |  
3b 53 AAATAAP 59

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N protein - protein search, using sw model

un on: February 5, 2004, 15:58:02 ; Search time 40 Seconds

(without alignments)  
4212.709 Million cell updates/sec

title: US-09-989-279-229

effect score: 653

sequence: 1 MXLLQVTVHHTWNAILLP.....ISEPVIIQTHKDKVQSTQI 653

scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

searched: 830525 seqs, 258052604 residues

word size : 6

Total number of hits satisfying chosen parameters: 9193

minimum DB seq length: 0

maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

1: SPTEMBL 23:\*\*

2: sp\_bacteria:\*\*

3: sp\_fungi:\*\*

4: sp\_human:\*\*

5: sp\_invertebrate:\*\*

6: sp\_mammal:\*\*

7: sp\_rhc:\*\*

8: sp\_organelle:\*\*

9: sp\_phage:\*\*

10: sp\_plant:\*\*

11: sp\_rodent:\*\*

12: sp\_virus:\*\*

13: sp\_vertebrate:\*\*

14: sp\_unclassified:\*\*

15: sp\_virus:\*\*

16: sp\_bacteriap:\*\*

17: sp\_archaeap:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	653	100.0	653	4 Q9BHW1	Q9BHW1 homo sapien
2	396	60.6	649	4 Q9CA85	Q9CA85 homo sapien
3	325	49.8	652	11 Q99PH1	Q99PH1 mus musculus
4	231	35.4	648	11 Q8V135	Q8V135 mus musculus
5	122	18.7	629	11 Q8B709	Q8B709 mus musculus
6	19	2.9	640	11 Q8HCJ2	Q8HCJ2 homo sapien
7	19	2.9	640	11 Q8C031	Q8C031 mus musculus
8	19	2.9	640	11 Q8B8H8	Q8B8H8 mus musculus
9	14	2.1	422	4 Q9NT99	Q9NT99 homo sapien
10	9	1.4	347	13 Q9DE00	Q9DE00 petromyzon
11	9	1.4	388	13 Q9DD29	Q9DD29 petromyzon
12	9	1.4	582	5 Q46042	Q46042 drosophila
13	9	1.4	595	5 Q9A407	Q9A407 drosophila
14	9	1.4	598	8 Q8LX55	Q8LX55 cynocephalu
15	9	1.4	926	10 Q9ZSH1	Q9ZSH1 brassica na
16	9	1.4	927	10 Q9ZSH2	Q9ZSH2 brassica na

17	9	1.4	1103	5 Q9VY72	Q9VY72 drosophila
18	8	1.2	121	2 P71515	P71515 methyllobact
19	8	1.2	122	16 Q54166	Q54166 streptomyce
20	8	1.2	124	17 Q9YDE6	Q9YDE6 aeropyrum p
21	8	1.2	130	10 Q9LX88	Q9LX88 arabidopsis
22	8	1.2	151	10 Q8L4D4	Q8L4D4 oryza sativ
23	8	1.2	203	4 Q13222	Q13222 homo sapien
24	8	1.2	205	10 Q9FR30	Q9FR30 lycopersico
25	8	1.2	207	4 Q8WIX6	Q8WIX6 homo sapien
26	8	1.2	255	5 Q9SSR4	Q9SSR4 drosophila
27	8	1.2	256	2 Q937F1	Q937F1 mycobacteri
28	8	1.2	288	5 Q8MRU4	Q8MRU4 drosophila
29	8	1.2	288	5 Q9WOP0	Q9WOP0 drosophila
30	8	1.2	314	10 Q8S1L3	Q8S1L3 oryza sativ
31	8	1.2	320	10 Q8SVV5	Q8SVV5 oryza sativ
32	8	1.2	335	16 Q8V8K2	Q8V8K2 bruceella me
33	8	1.2	339	2 Q8GRF2	Q8GRF2 bruceella du
34	8	1.2	339	11 Q8C612	Q8C612 mus musculus
35	8	1.2	368	16 Q8FW06	Q8FW06 bruceella su
36	8	1.2	377	11 Q89949	Q89949 rattus norv
37	8	1.2	378	11 Q99PM3	Q99PM3 mus musculus
38	8	1.2	431	5 Q9VFP2	Q9VFP2 drosophila
39	8	1.2	439	4 Q16365	Q16365 homo sapien
40	8	1.2	442	6 Q8M1N5	Q8M1N5 sus scrofa
41	8	1.2	442	11 Q8V187	Q8V187 mus musculus
42	8	1.2	444	5 Q9U2V9	Q9U2V9 caenorhabdi
43	8	1.2	447	10 Q9W023	Q9W023 arabidopsis
44	8	1.2	468	10 Q942G0	Q942G0 oryza sativ
45	8	1.2	547	13 Q91349	Q91349 xenopus lae
46	8	1.2	591	16 Q8RPS0	Q8RPS0 oceanobacil
47	8	1.2	601	10 Q9FK10	Q9FK10 arabidopsis
48	8	1.2	606	5 Q8WST6	Q8WST6 drosophila
49	8	1.2	606	5 Q9VLA2	Q9VLA2 drosophila
50	8	1.2	611	16 Q9WYD6	Q9WYD6 thermotoga
51	8	1.2	613	5 Q8N012	Q8N012 drosophila
52	8	1.2	650	10 Q8VVC0	Q8VVC0 arabidopsis
53	8	1.2	650	10 Q50071	Q50071 arabidopsis
54	8	1.2	670	10 Q8H0Z0	Q8H0Z0 arabidopsis
55	8	1.2	680	5 Q9STU3	Q9STU3 drosophila
56	8	1.2	742	5 Q9W186	Q9W186 drosophila
57	8	1.2	743	5 Q24037	Q24037 drosophila
58	8	1.2	827	10 Q8S5J7	Q8S5J7 oryza sativ
59	8	1.2	831	5 Q9NFL3	Q9NFL3 drosophila
60	8	1.2	831	5 Q9V8T0	Q9V8T0 drosophila
61	8	1.2	837	16 Q9PPY5	Q9PPY5 xylella fas
62	8	1.2	882	5 Q9V3J9	Q9V3J9 drosophila
63	8	1.2	890	5 Q45317	Q45317 caenorhabdi
64	8	1.2	909	5 Q19857	Q19857 caenorhabdi
65	8	1.2	921	10 Q9XHG0	Q9XHG0 arabidopsis
66	8	1.2	922	5 Q9SU05	Q9SU05 drosophila
67	8	1.2	926	10 Q39214	Q39214 arabidopsis
68	8	1.2	939	5 Q810R8	Q810R8 caenorhabdi
69	8	1.2	945	5 Q9NKT7	Q9NKT7 leishmania
70	8	1.2	1054	3 Q94097	Q94097 varrowia li
71	8	1.2	1055	2 P95632	P95632 rickettsia
72	8	1.2	1057	2 Q9FDP1	Q9FDP1 rickettsia
73	8	1.2	1058	2 P95661	P95661 rickettsia
74	8	1.2	1062	11 Q8BK33	Q8BK33 mus musculus
75	8	1.2	1224	5 Q9VXW2	Q9VXW2 drosophila
76	8	1.2	1263	5 Q8T0M2	Q8T0M2 drosophila
77	8	1.2	1462	5 Q9V5Q8	Q9V5Q8 drosophila
78	8	1.2	1847	5 Q9NKN5	Q9NKN5 leishmania
79	8	1.2	2087	5 Q8NXL2	Q8NXL2 leishmania
80	8	1.2	3414	12 Q9IG40	Q9IG40 langat viru
81	8	1.2	3414	12 Q9IG39	Q9IG39 langat viru
82	7	1.1	24	4 Q16476	Q16476 homo sapien
83	7	1.1	63	16 Q8XTM2	Q8XTM2 ralistomye
84	7	1.1	66	16 Q9S2N5	Q9S2N5 streptomyce
85	7	1.1	67	5 Q96469	Q96469 plasmodium
86	7	1.1	67	8 Q8SJ13	Q8SJ13 urus arco
87	7	1.1	67	16 Q8CQNS	Q8CQNS staphylococ
88	7	1.1	71	12 Q9IIL1	Q9IIL1 white spot
89	7	1.1	72	2 Q9X6L9	Q9X6L9 klebsiella



2Y 541 AAMLIYFKLKRKQKQSTVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEGAVLPT 600  
DB 541 AAMLIYFKLKRKQKQSTVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEGAVLPT 600  
2Y 601 IHDHINVTYKPAHGAHWHTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHINVTYKPAHGAHWHTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

## RESULT 2

Q96A85 PRELIMINARY; PRT; 649 AA.  
AC Q96A85  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE Hypothetical protein.  
GN BAG.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Wang J., Zhongshan Medical University, Guangzhou, China.  
RL Thesis (2000).  
DR EMBL; AJ297888; CAC82651.1; -.  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG C2.  
DR InterPro; IPR003006; IG MHC.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR Cterm.  
DR InterPro; IPR000372; LRR Nterm.  
DR InterPro; IPR003591; LRR Typ.  
DR Pfam; PF00047; IG; 1.  
DR Pfam; PF00560; LRR; 6.  
DR Pfam; PF01463; LRRCT; 1.  
DR Pfam; PF01462; LRRNT; 1.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00013; LRRNT; 1.  
DR SMART; SM00369; LRR TYP; 3.  
DR PROSITE; PS0835; IG LIKE; 1.  
DR PROSITE; PS0506; LRR TYPICAL; 1.  
KW Hypothetical protein; Immunoglobulin domain; Signal.  
FT SIGNAL 1 38  
SQ SEQUENCE 649 AA; 72313 MW; 9C11C5A8C7E536CF CRC64;

Query Match 60.6%; Score 396; DB 4; Length 649;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 258 ERNADFGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHLENPNKCDICDILMLAWLRE 317  
DB 254 ERNADFGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHLENPNKCDICDILMLAWLRE 313  
QY 318 YIPNSTCCGRCHAPMHRGRIYVEVDQASFOCSAPPINDAPRDINISEGRMAELKCRTP 377  
DB 314 YIPNSTCCGRCHAPMHRGRIYVEVDQASFOCSAPPINDAPRDINISEGRMAELKCRTP 373  
QY 378 PMSSVKLLPENGTVLSASHPRIISVINDGTINFGSHVLLSDGTGVTCMTVNVAGNSNASE 437  
DB 374 PMSSVKLLPENGTVLSASHPRIISVINDGTINFGSHVLLSDGTGVTCMTVNVAGNSNASE 433  
QY 438 YLNVSTALNTSNYSPTTVVETTEISEDTRKYPVPTSTGQPAYTSTTVLIOT 497  
DB 434 YLNVSTALNTSNYSPTTVVETTEISEDTRKYPVPTSTGQPAYTSTTVLIOT 493  
QY 498 TRVFKQAVPATDTDKQVQTSLEVDVKKTKIIIGCFVAVTLAAAMLIVFYKRRKQOR 557  
DB 494 TRVFKQAVPATDTDKQVQTSLEVDVKKTKIIIGCFVAVTLAAAMLIVFYKRRKQOR 553  
QY 558 STVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEGAVLPTIHDHINVTYKPAHGAH 617

DB 554 STVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEGAVLPTIHDHINVTYKPAHGAH 613  
QY 618 WTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
DB 614 WTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 649

## RESULT 3

Q99PH1 PRELIMINARY; PRT; 652 AA.  
AC Q99PH1  
DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE LRRCT4-like protein.  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Wang J., Qian J., Dong L., Li X., Tan C., Li J., Zhang B., Zhang X.,  
Bin L., Zhou J., Li G.;  
RL Identification and Expression Analysis of LRRCT4, a Novel Member of  
RT Leucine-Rich Repeat (LRR) Superfamily.;  
FL Shengwu Huaxue Yu Shengwu Wuli Jinzhan 29:0-0(2002).  
DR EMBL; AF290542; AAG60620.2; -.  
DR InterPro; IPR003599; IG.  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG C2.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR Cterm.  
DR InterPro; IPR000372; LRR Nterm.  
DR InterPro; IPR003591; LRR Typ.  
DR Pfam; PF00560; LRR; 8.  
DR Pfam; PF01463; LRRCT; 1.  
DR Pfam; PF01462; LRRNT; 1.  
DR PRINTS; PRO0019; LEURICHRPT.  
DR SMART; SM00409; IG; 1.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00013; LRRNT; 1.  
DR PROSITE; PS0835; IG LIKE; 1.  
DR PROSITE; PS0506; LRR TYPICAL; 2.  
SQ SEQUENCE 652 AA; 72619 MW; 9D2807A1AE30062 CRC64;

Query Match 49.8%; Score 325; DB 11; Length 652;  
Best Local Similarity 100.0%; Pred. No. 34e-316;  
Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 VYLTAQVWILCAALAAASAGPQSCVCSNCFKSVCTRRGLSEVPQIGPSNTRYLN 81  
DB 21 VYLTAQVWILCAALAAASAGPQSCVCSNCFKSVCTRRGLSEVPQIGPSNTRYLN 80  
QY 82 LKNNIQIMQADTFRLHLEVLQLGNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSG 141  
DB 81 LKNNIQIMQADTFRLHLEVLQLGNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSG 140  
QY 142 APEYLSKLRELNRNPTIESIPSYAFNRVPSLMDLDELKLELYISEGAFGLFNLYL 201  
DB 141 APEYLSKLRELNRNPTIESIPSYAFNRVPSLMDLDELKLELYISEGAFGLFNLYL 200  
QY 202 NLGMNTIKDMNPLVCLLELENSGNHFFPIRPSFGLSLKLLWVNSQVSLIERNA 261  
DB 201 NLGMNTIKDMNPLVCLLELENSGNHFFPIRPSFGLSLKLLWVNSQVSLIERNA 260  
QY 262 FDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHLENPNKCDICDILMLAWLREYIPT 321  
DB 261 FDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHLENPNKCDICDILMLAWLREYIPT 320  
QY 322 NSTCCGRCHAPMHRGRIYVEVDQASFOCSAPPINDAPRDINISEGRMAELKCRTP 346

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Db      321 NSTCCGCHAPNMGRYLVEVDQA 345
|||||
RESULT 4
Q8VI35 PRELIMINARY; PRT; 648 AA.
AC Q8VI35;
DT 01-MAR-2002 (TREMblrel. 20, Created)
DT 01-MAR-2002 (TREMblrel. 20, Last sequence update)
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
DE Brain tumor-associated protein MBAG1.
DS Mus musculus (Mouse).
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
DX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Wang J., Bin L., Li G.;
RT "Brain-specific Gene, downregulated in brain tumor.";
RL Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF300458; AAL67671.1;
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR_Cterm.
DR InterPro; IPR003372; LRR_Nterm.
DR InterPro; IPR003591; LRR_Typ.
DR Pfam; PF00560; LRR_6.
DR Pfam; PF01463; LRRCT; 1.
DR Pfam; PF01462; LRRNT; 1.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00369; LRR_Typ; 3.
DR PROSITE; PS50835; IG LIKE; 1.
DR PROSITE; PS50506; LRR_TYPICAL; 1.
QX SEQUENCE 648 AA; 72215 MW; E7E2E50FCBF4DDD CRC64;
Query Match 35.4%; Score 231; DB 11; Length 648;
Best Local Similarity 100.0%; Pred. No. 4.5e-222;
Matches 231; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Y 22 VYLAQWILCAIAAASAGPNCPSVCSNQPSKVCTRGISEVPGQIPSNTRYLN 81
b 21 VYLAQWILCAIAAASAGPNCPSVCSNQPSKVCTRGISEVPGQIPSNTRYLN 80
Y 82 LMENNIOIADTFRLHLEVLQLGNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSG 141
b 81 LMENNIOIADTFRLHLEVLQLGNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSG 140
Y 142 AFYLSKRLRLRNPIPSYAFNRVPSLMLDLGLKXLEYISEGAFGLFNKYL 201
b 141 AFYLSKRLRLRNPIPSYAFNRVPSLMLDLGLKXLEYISEGAFGLFNKYL 200
Y 202 NLGMCNKDMPNLTPLVGLLEELWNSGNHPEIRPSFHLSSLKLLWVNS 252
b 201 NLGMCNKDMPNLTPLVGLLEELWNSGNHPEIRPSFHLSSLKLLWVNS 251
RESULT 5
Q8BJ09 PRELIMINARY; PRT; 429 AA.
C Q8BJ09;
T 01-MAR-2003 (TREMblrel. 23, Created)
T 01-MAR-2003 (TREMblrel. 23, Last sequence update)
T 01-MAR-2003 (TREMblrel. 23, Last annotation update)
E LIBG-like protein homolog.
S Mus musculus (Mouse).
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
DX NCBI_TaxID=10090;

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RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Medulla oblongata;
RX MEDLINE=22354683; PubMed=12465851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573 (2002).
DR EMBL; AK046781; BAC32864.1;
SQ SEQUENCE 429 AA; 47536 MW; 58D8843555167347 CRC64;
Query Match 18.7%; Score 122; DB 11; Length 429;
Best Local Similarity 100.0%; Pred. No. 4.4e-113;
Matches 122; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 225 MSGNHFPPIRPSFHLSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHD 284
DB 1 MSGNHFPPIRPSFHLSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHD 60
QY 285 LFTPLRYLVELLHHPNPNCDLILWLAWLREYIPNPTCCGCHAPNMGRYLVEVD 344
DB 61 LFTPLRYLVELLHHPNPNCDLILWLAWLREYIPNPTCCGCHAPNMGRYLVEVD 120
QY 345 QA 346
DB 121 QA 122
RESULT 6
Q9HCJ2 PRELIMINARY; PRT; 640 AA.
AC Q9HCJ2;
DT 01-MAR-2001 (TREMblrel. 16, Created)
DT 01-MAR-2001 (TREMblrel. 16, Last sequence update)
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
DE Hypothetical protein KIAA1580 (Fragment).
GN KIAA1580.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
CX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20450683; PubMed=10997877;
RA Nagase T., Kikuno R., Nakayama M., Hirotsawa M., Ohara O.;
RT "Prediction of the coding sequences of unidentified human genes.
RT XVII. The complete sequences of 100 new cDNA clones from brain which
RT code for large proteins in vitro.";
RL DNA Res. 7:273-281 (2000).
DR EMBL; AB046800; BAB13406.1;
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR_Cterm.
DR InterPro; IPR003372; LRR_Nterm.
DR Pfam; PF00047; IG; 1.
DR Pfam; PF00560; LRR; 9.
DR Pfam; PF01463; LRRCT; 1.
DR Pfam; PF01462; LRRNT; 1.
DR PRINTS; PR00019; LEURICRPT.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00369; LRR_Typ; 4.
DR PROSITE; PS50835; IG LIKE; 1.
DR PROSITE; PS50506; LRR_TYPICAL; 2.
DX Hypothetical protein; Immunoglobulin domain.
FT NON TER
SQ SEQUENCE 640 AA; 71949 MW; 6058974872636838 CRC64;

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Query Match 2.9%; Score 19; DB 4; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
 |||||  
 b 152 ELWLNNPIESIPSYAFNR 170  
 |||||

RESULT 7  
 SC031 PRELIMINARY; PRT; 640 AA.  
 C Q8C031  
 T 01-MAR-2003 (TrEMBLrel. 23, Created)  
 T 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
 T 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 E Weakly similar to brain tumor associated protein NAG14.  
 S Mus musculus (Mouse).  
 C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 X NCBI\_TaxID=10090;  
 N [1]  
 P SEQUENCE FROM N.A.  
 C STRAIN=C57BL/6J; TISSUE=Olfactory brain;  
 X MEDLINE=22354683; PubMed=12466851;  
 A The FANTOM Consortium.  
 A the RIKEN Genome Exploration Research Group Phase I & II Team;  
 T "Analysis of the mouse transcriptome based on functional annotation of  
 T 60,770 full-length cDNAs."  
 L Nature 420:563-573(2002).  
 R EMBL; AK032467; BAC27984.1; -.  
 Q SEQUENCE 640 AA; 71959 MW; 98105141825CB070 CRC64;

Query Match 2.9%; Score 19; DB 11; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
 |||||  
 b 152 ELWLNNPIESIPSYAFNR 170  
 |||||

RESULT 8  
 SCGH8 PRELIMINARY; PRT; 640 AA.  
 C Q8GH8  
 T 01-MAR-2003 (TrEMBLrel. 23, Created)  
 T 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
 T 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 E Weakly similar to brain tumor associated protein NAG14.  
 S Mus musculus (Mouse).  
 C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 X NCBI\_TaxID=10090;  
 N [1]  
 P SEQUENCE FROM N.A.  
 C STRAIN=C57BL/6J; TISSUE=Diencephalon, and Head;  
 X MEDLINE=22354683; PubMed=12466851;  
 A The FANTOM Consortium.  
 A the RIKEN Genome Exploration Research Group Phase I & II Team;  
 E "Analysis of the mouse transcriptome based on functional annotation of  
 T 60,770 full-length cDNAs."  
 L Nature 420:563-573(2002).  
 R EMBL; AK034276; BAC28656.1; -.  
 R EMBL; AK048322; BAC3302.1; -.  
 Q SEQUENCE 640 AA; 71991 MW; 9810515A995CAB6B CRC64;

Query Match 2.9%; Score 19; DB 11; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
 |||||  
 b 152 ELWLNNPIESIPSYAFNR 170  
 |||||

Db 152 ELWLNNPIESIPSYAFNR 170  
 |||||  
 RESULT 9  
 Q9NT99 PRELIMINARY; PRT; 422 AA.  
 AC Q9NT99  
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Hypothetical protein (Fragment).  
 GN DKFZP761A179  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 X NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Amysdala;  
 RA Blum H., Bauersachs S., Meves H.W., Gassenhuber J., Wiemann S.;  
 RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AL137451; CAB70743.1; -.  
 DR InterPro; IPR007110; IG-like.  
 DR InterPro; IPR003598; IG C2.  
 DR InterPro; IPR003006; IG MHC.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR000483; LRR Cterm.  
 DR InterPro; IPR003591; LRR typ.  
 DR InterPro; IPR000217; Tubulin.  
 DR Pfam; PF00047; IG; 1.  
 DR Pfam; PF00560; LRR; 3.  
 DR Pfam; PF01463; LRRCT; 1.  
 DR PRINTS; PR00019; LEURICHRPT.  
 DR SMART; SM00408; IGC2; 1.  
 DR SMART; SM00082; LRRCT; 1.  
 DR SMART; SM00369; LRR typ; 2.  
 DR PROSITE; PS00835; IG-LIKE; 1.  
 DR PROSITE; PS05056; LRR-TYPICAL; 1.  
 DR PROSITE; PS00227; TUBULIN; 1.  
 KW Hypothetical protein; Immunoglobulin domain.  
 FT NON\_TER 1 1  
 FT .NON\_TER 422 422  
 SQ SEQUENCE 422 AA; 45110 MW; 164C6AF1A4BC440C CRC64;

Query Match 2.1%; Score 14; DB 4; Length 422;  
 Best Local Similarity 100.0%; Pred. No. 6.1e-05;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 522 VMKTKIILIGCTVA 535  
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 Db 356 VMKTKIILIGCTVA 369  
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RESULT 10  
 Q9DE00 PRELIMINARY; PRT; 347 AA.  
 AC Q9DE00  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Biglycan-like protein 1 (Fragment).  
 GN BGli  
 OS Petromyzon marinus (Sea lamprey).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hyperoartia;  
 OC Petromyzontiformes; Petromyzontidae; Petromyzon.  
 X NCBI\_TaxID=7757;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=20496956; PubMed=11040287;  
 RA Shintani S., Sato A., Toyosawa S., O'Huigin C., Klein J.;  
 RT "Biglycan-like extracellular matrix genes of agnathans and teleosts."  
 RL J. Mol. Evol. 51:363-373(2000).  
 DR EMBL; AF247825; AAG40160.1; -.

DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR003372; LRR\_Nterm.  
 DR InterPro; IPR003591; LRR\_Typ.  
 DR Pfam; PF00560; LRR; 8.  
 DR Pfam; PF01462; LRRNT; 1.  
 DR SMART; SM00013; LRRNT; 1.  
 DR PROSITE; PS0506; LRR\_TYPICAL; 1.  
 FT NON\_TER 1  
 SQ SEQUENCE 347 AA; 38266 MW; 55CC296938CED391 CRC64;  
 Query Match 1.4%; Score 9; DB 13; Length 347;  
 Best Local Similarity 100.0%; Pred. No. 5.2; Mismatches 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 114 IEVGAFNGFL 122  
 DB 177 IEVGAFNGFL 185  
 RESULT 11  
 Q9DDZ9 PRELIMINARY; PRT; 388 AA.  
 AC Q9DDZ9  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Glycylase-like protein 1 (Fragment).  
 GN BGL1.  
 OS Petromyzon marinus (Sea lamprey).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hyperoartia;  
 OC Petromyzontiformes; Petromyzontidae; Petromyzon.  
 OC NCBI\_TaxID=7757;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=20496956; PubMed=11040287;  
 RA Shintani S., Sato A., Toyosawa S., O'higgin C., Klein J.;  
 RT "Bicyclic-like extracellular matrix genes of agnathans and teleosts.";  
 RL J. Mol. Evol. 51:363-373 (2000).  
 DR EMBL; AF247826; AAG40161.1; -.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR003372; LRR\_Nterm.  
 DR InterPro; IPR003591; LRR\_Typ.  
 DR Pfam; PF00560; LRR; 8.  
 DR Pfam; PF01462; LRRNT; 1.  
 DR SMART; SM00013; LRRNT; 1.  
 DR PROSITE; PS0506; LRR\_TYPICAL; 1.  
 FT NON\_TER 1  
 SQ SEQUENCE 388 AA; 42542 MW; 2B07169E9BB86071B CRC64;  
 Query Match 1.4%; Score 9; DB 13; Length 388;  
 Best Local Similarity 100.0%; Pred. No. 5.7; Mismatches 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 114 IEVGAFNGFL 122  
 DB 218 IEVGAFNGFL 226  
 RESULT 12  
 Q46042 PRELIMINARY; PRT; 582 AA.  
 AC Q46042  
 DT 01-JUN-1998 (TrEMBLrel. 06, Created)  
 DT 01-JUN-1998 (TrEMBLrel. 06, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE EG-114E2.2 protein.  
 GN MNT OR EG-114E2.2 OR CG2856 OR CG13316.  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OC NCBI\_TaxID=7227;  
 RN [1]

RP SEQUENCE FROM N.A.  
 RA Murphy L., Harris D., Barrall B.;  
 RL Submitted (AUG-1997) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RA Benos P.;  
 RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.  
 CC -/- SIMILARITY: BELONGS TO THE BASIC HELIX-LOOP-HELIX (BHLH) FAMILY OF  
 CC TRANSCRIPTION FACTORS.  
 DR EMBL; Z98254; CAB10912.1; -.  
 DR FlyBase; FBgn0023215; Mnt.  
 DR InterPro; IPR001092; HLH\_Basic.  
 DR InterPro; IPR002155; Thiolase.  
 DR Pfam; PF00010; HLH; 1.  
 DR SMART; SM00353; HLH; 1.  
 DR PROSITE; PS00888; HLH 2; 1.  
 DR PROSITE; PS00099; THIOLEASE 3; 1.  
 SQ SEQUENCE 582 AA; 59624 MW; 8185F6E70D63D51B CRC64;  
 Query Match 1.4%; Score 9; DB 5; Length 582;  
 Best Local Similarity 100.0%; Pred. No. 8.2; Mismatches 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 578 ATSAATAA 586  
 DB 49 ATSAATAA 57  
 RESULT 13  
 Q9W407 PRELIMINARY; PRT; 595 AA.  
 ID Q9W407  
 AC Q9W407  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE CG13316 protein.  
 GN MNT OR EG-114E2.2 OR CG2856 OR CG13316.  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OC NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Berkeley;  
 RX MEDLINE=20196006; PubMed=10731132;  
 RA Adams M.D., Celisner S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,  
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
 RA Sutton G.G., Wortman J.R., Vandeil M.D., Zhang Q., Chen L.X.,  
 RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champagne M., Pfeiffer B.D.,  
 RA Man K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,  
 RA Abril J.P., Agbayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,  
 RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,  
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,  
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,  
 RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,  
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
 RA de Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrier S., Fleischmann W.,  
 RA Foster C., Gabrielian A.B., Garg N.S., Gelbart W.M., Glasser K.,  
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
 RA Heston D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lin Z.,  
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Paclob J.M.,  
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,



JA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 UA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
 UA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 UA Svirskas R., Tector C., Turner E., Venter E., Wang A.H., Wang X.,  
 UA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,  
 UA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 UA Ye J., Yeh R.-P., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 UA Zheng X.H., Zhong F.N., Zhong N., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 UA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
 T "The genome sequence of *Drosophila melanogaster*.";  
 L Science 287:2185-2195(2000).  
 N [2]  
 P SEQUENCE FROM N.A.  
 A Celinker S.E., Adams M.D., Krommiller B., Wan K.H., Holt R.A.,  
 A Evans C.A., Gocayne J.D., Ananidis P.G., Brandon R.C., Rogers Y.,  
 A Banon J., An H., Baldwin D., Benson D., Beeson K.Y., Busam D.A.,  
 A Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,  
 A Dodson K., Dorsett V., Dou L.E., Doyle C., Dresnek D., Farfan D.,  
 A Ferreira S., Frise E., Galle R.F., Garg N.S., George R.A.,  
 A Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,  
 A Ibegwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,  
 A McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunoo J.,  
 A Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B., Scheeler F.,  
 A Phouanavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,  
 A Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,  
 A Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;  
 L "Sequencing of *Drosophila melanogaster* genome.";  
 Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 [3]  
 P SEQUENCE FROM N.A.  
 A Misra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,  
 A Hradscky P., Huang Y., Kaminker J.S., Prochuk S.E., Smith C.D.,  
 A Tupy J.L., Bergman C., Berman B., Carlson J.W., Celinker S.E.,  
 A Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N.,  
 A Krommiller B., Marshall B., Millburn G., Richter J., Russo S.,  
 A Searle S.M., Smith E., Shu S., Smutniak F., Whitfield E.,  
 A Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;  
 "Annotation of *Drosophila melanogaster* genome.";  
 Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 [4]  
 P SEQUENCE FROM N.A.  
 A Adams M.D., Celinker S.E., Gibbs R.A., Rubin G.M., Venter C.J.;  
 Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 [5]  
 P SEQUENCE FROM N.A.  
 A FlyBase;  
 Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.  
 -1- SIMILARITY: BELONGS TO THE BASIC HELIX-LOOP-HELIX (BHLH) FAMILY OF  
 TRANSCRIPTION FACTORS.  
 EMBL; AB003428; AAF45888.2; -;  
 FlyBase; FBgn0023215; Mnt.  
 InterPro; IPR000104; Antifreeze\_1.  
 InterPro; IPR001092; HLH basic.  
 InterPro; IPR002155; Thiolase.  
 Pfam; PF00010; HLH; 1  
 PRINTS; PR00308; ANTIFREEZE1.  
 SMART; SM00353; HLH; 1.  
 PROSITE; PS50888; HLH 2; 1.  
 PROSITE; PS00099; THIOLEASE 3; 1.  
 SEQUENCE 595 AA; 61079 MW; 286EDP2632E9B6E CRC64;  
 Query Match 1.4%; Score 9; DB 5; Length 595;  
 Best Local Similarity 100.0%; Pred.No. 8.3;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 578 ATSAATAAA 586  
 49 ATSAATAAA 57

AC Q8LX55;  
 DT 01-OCT-2002 (TRENBLrel. 22, Created)  
 DT 01-OCT-2002 (TRENBLrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)  
 DE NADH dehydrogenase subunit 5.  
 GN NADH5.  
 OS Cynocephalus variegatus.  
 OG Mitochondrion.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Dermoptera; Cynocephalidae; Cynocephalus.  
 OX NCBI\_TaxID=9457;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Arnason U.;  
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=22056029; PubMed=12034869;  
 RA Arnason U., Adegoke J.A., Bodin K., Born E.W., Esa Y.B., Gullberg A.,  
 RA Nilsson M., Short R.V., Xu X., Janke A.;  
 RT "Mammalian mitogenomic relationships and the root of the eutherian  
 tree.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:8151-8156(2002).  
 DR EMBL; AF48849; CAD21803.1; -;  
 DR InterPro; IPR003916; NADHub\_oxred5.  
 DR InterPro; IPR001750; Oxidored q1.  
 DR InterPro; IPR001516; Oxidored q1\_N.  
 DR Pfam; PF00361; Oxidored q1; 1.  
 DR Pfam; PF00662; Oxidored q1\_N; 1.  
 DR PRINTS; PR01434; NADHGNASE5.  
 KW NAD; Oxidoreductase; Ubiquinone; Mitochondrion.  
 SQ SEQUENCE 598 AA; 65953 MW; 30D1664C041A28F3 CRC64;  
 Query Match 1.4%; Score 9; DB 8; Length 598;  
 Best Local Similarity 100.0%; Pred.No. 8.4;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 212 PNLTPVLCI 220  
 DB 203 PNLTPVLCI 211  
 RESULT 15  
 Q9ZSH1  
 ID Q9ZSH1 PRELIMINARY; PRT; 926 AA.  
 AC Q9ZSH1  
 DT 01-MAY-1999 (TRENBLrel. 10, Created)  
 DT 01-MAY-1999 (TRENBLrel. 10, Last sequence update)  
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)  
 DE Disease resistance gene homolog 9N.  
 GN RPM1.  
 OS Brassica napus (Rape).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Brassica.  
 OX NCBI\_TaxID=3708;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=N-0-9, and cv. CPB 87/5;  
 RX MEDLINE=99080102; PubMed=9861058;  
 RA Grant M.R., McDowell J.M., Sharpe A.G., de Torres Zabala M.,  
 RA Lydiate D.J., Dangl J.L.;  
 RT Independent deletions of a pathogen-resistance gene in Brassica and  
 Arabidopsis.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 95:15943-15948(1998).  
 DR EMBL; AF105140; AAC99466.1; -;  
 DR InterPro; IPR000767; Disease\_resist.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR002182; NB-ARC.  
 DR InterPro; IPR000719; Prot\_kinase.  
 DR Pfam; PF00560; LRR; 1.  
 DR Pfam; PF00931; NB-ARC; 1.  
 DR PRINTS; PR00364; DISEASERISIT.

DR PROSITE; PS00107; PROTEIN KINASE ATP; 1.  
SQ SEQUENCE 926 AA; 106285 MW; 566C6F23613A6822 CRC64;  
Query Match 1.4%; Score 9; DB 10; Length 926;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 195 LFNLKYLINL 203  
Db 603 LFNLKYLINL 611  
RESULT 16  
Q92SH2 PRELIMINARY; PRT; 927 AA.  
AC Q92SH2;  
DT 01-MAY-1999 (TrEMBLrel. 10, Created)  
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE Disease resistance gene homolog 1A.  
GN RPM1  
OS Brassica napus (Rape)  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
OC eurosids II; Brassicales; Brassicaceae; Brassica.  
OX NCBI\_TaxID=3708;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=N-0-1, and cv. Westar;  
EX MEDLINE-99030102; PubMed=9851058;  
RA Grant M.R., McDowell J.M., Sharpe A.G., de Torres Zabala M.,  
Lydiate D.J., Dangi J.L.;  
RT "Independent deletions of a pathogen-resistance gene in Brassica and  
Arabidopsis";  
RL Proc. Natl. Acad. Sci. U.S.A. 95:15843-15849(1998).  
DR EMBL; AF105139; AAC99464.1; -;  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR002182; NB-ARC.  
DR InterPro; IPR000719; Prot\_kinase.  
DR Pfam; PFO0560; LRR; 1.  
DR Pfam; PFO0931; NB-ARC; 1.  
DR PROSITE; PS00107; PROTEIN KINASE ATP; 1.  
SQ SEQUENCE 927 AA; 106123 MW; 2D7CB8EAC67A74BF CRC64;  
Query Match 1.4%; Score 9; DB 10; Length 927;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 195 LFNLKYLINL 203  
Db 604 LFNLKYLINL 612  
RESULT 17  
Q9VY72 PRELIMINARY; PRT; 1103 AA.  
AC Q9VY72;  
DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE C32611 protein.  
GN C32611 OR CG11075 OR CG11092.  
OS Drosophila melanogaster (Fruit fly).  
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Ephydroidea; Drosophilidae; Drosophila.  
OX NCBI\_TaxID=7227;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Berkley;  
EX MEDLINE-20196006; PubMed-10731132;  
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
Amanatides P.G., Scher S.E., Li P.W., Hoskins R.A., Galle R.F.,

George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,  
Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,  
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,  
R Abril J.P., Aghayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,  
Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,  
Beeson K.V., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,  
Borkova D., Botchan M.R., Bouck J., Brockstein P., Brothier P.,  
Burtis K.C., Busam D.A., Suttler H., Cadenot E., Center A., Chandra I.,  
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
Dodson K., Doup I.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
Durbin K.J., Evangelista C.C., Ferraz C., Ferrier W.M., Fleischmann W.,  
Foeller C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,  
Glodek A., Gong P., Gorrell J.H., Gu Z., Guan P., Harris M.,  
Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
Jaini M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,  
Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Padleu J.M.,  
Palazzo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
Spier E.C., Spradling A.C., Stapleton M., Strong R., Sun E.,  
Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissbach J.,  
Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
Ye J., Yen R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
Zheng X.H., Zhong F., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
RT "The genome sequence of Drosophila melanogaster";  
RL Science 287:2185-2195(2000).  
RN [2]  
RP SEQUENCE FROM N.A.  
RA Celniker S.E., Adams M.D., Krommiller B., Wan K.H., Holt R.A.,  
Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,  
Banzon J., An H., Baldwin D., Banzon J., Beeson K.Y., Busam D.A.,  
Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,  
Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,  
Ferreira S., Frise E., Galle R.F., Garg N.S., George R.A.,  
Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,  
Ibegwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,  
McIntosh T.C., Moy M., Murphy B., Nelson C., Pfeiffer B., Nunoo J.,  
Phouanavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,  
Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,  
Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;  
RT "Sequencing of Drosophila melanogaster genome";  
RL Submitted (MAR-2000) to the EMBL/GenBank/DBSJ databases.  
RN [3]  
RP SEQUENCE FROM N.A.  
RA Misra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,  
Hradecky P., Huang Y., Kaminker J.S., Prochnik S.E., Smith C.D.,  
Tupy J.L., Bergman B., Carlson J.W., Celniker S.E.,  
Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N.,  
Krommiller B., Marshall B., Millburn G., Richter J., Russo S.,  
Searle S.M.J., Smith E., Shu S., Smutniak F., Whitfield E.,  
Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;  
RT "Annotation of Drosophila melanogaster genome";  
RL Submitted (MAR-2000) to the EMBL/GenBank/DBSJ databases.  
RN [4]  
RP SEQUENCE FROM N.A.  
RA Adams M.D., Celniker S.E., Gibbs R.A., Rubin G.M., Venter C.J.;  
RA Submitted (MAR-2000) to the EMBL/GenBank/DBSJ databases.  
RN [5]  
RP SEQUENCE FROM N.A.  
RA FlyBase;  
RL Submitted (SEP-2002) to the EMBL/GenBank/DBSJ databases.  
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

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DR EMBL; AF003494; AAF48333.2; -.
DR FlyBase; Fgmn052611; CG32611.
DR InterPro; IPR000104; Antifreeze_1.
DR InterPro; IPR000210; BVB_POZ.
DR InterPro; IPR007087; Znf_C2H2.
DR Pfam; PF00651; BTE; 1.
DR Pfam; PF00096; Zf_C2H2; 4.
DR PRINTS; PR00308; ANTIREEZE1.
DR PRINTS; PR00048; ZINC_FINGER.
DR SMART; SM00225; BTE; 1.
DR SMART; SM00355; Znf_C2H2; 4.
DR PROSITE; PS00097; BTE; 1.
DR PROSITE; PS00028; ZINC_FINGER_C2H2_1; 4.
DR PROSITE; PS00157; ZINC_FINGER_C2H2_2; 4.
DR Metal-binding; Nuclear protein; Zinc; Zinc-finger.
Q SEQUENCE 1103 AA; 113716 MW; E8586FD5683C9B0B CRC64;

Query Match 1.4%; Score 9; DB 5; Length 1103;
Best Local Similarity 100.0%; Pred.No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 578 ATSAATAAA 586
b 142 ATSAATAAA 150

RESULT 18
D P71515 PRELIMINARY; PRT; 121 AA.
C P71515;
T 01-FEB-1997 (TREMBLrel. 02, Created)
T 01-FEB-1997 (TREMBLrel. 02, Last sequence update)
T 01-NOV-1998 (TREMBLrel. 08, Last annotation update)
E Orf3.
S Methylobacterium extorquens.
C Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
C Methylobacteriaceae; Methylobacterium.
X NCBI_TaxID=408;
N [1]
P SEQUENCE FROM N.A.
C STRAIN=AMI;
C MEDLINE=97312011; PubMed=9168622;
A Chistosergerova L., Lidstrom M.E.;
F "Molecular and mutational analysis of a DNA region separating two
F methylo-trophy gene clusters in Methylobacterium extorquens AM1.";
J Microbiology 143:1729-1736(1997).
Z EMBL; U72862; AAS58896.1; -.
Q SEQUENCE 121 AA; 13201 MW; D83B8C0B6AF5A47F CRC64;

Query Match 1.2%; Score 8; DB 2; Length 121;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

537 TLLAAML 544
4166 [1]
O54166 PRELIMINARY; PRT; 122 AA.
O54166;
T 01-JUN-1998 (TREMBLrel. 06, Created)
T 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
T 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
F Hypothetical protein SC05937.
S SC05937 OR SC7H1.07C.
Streptomyces coelicolor.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Streptomycineae; Streptomyces.
NCBI_TaxID=1302;
[1]

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RP SEQUENCE FROM N.A.
RC STRAIN=A3(2) / M145;
RX MEDLINE=21996410; PubMed=12000953;
RA Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
RA Thomson N.R., James K.D., Harris D.B., Quail M.A., Kieser H.,
RA Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
RA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
RA Huang C.-H., Kieser T., Larke L., Murphy K., Oliver K., O'Neill S.,
RA Rabinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
RA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
RA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
RA Hopwood D.A.;
RT "Complete genome sequence of the model actinomycete Streptomyces
RT coelicolor A3(2)";
RL Nature 417:141-147(2002).
DR EMBL; AL939125; CAAL6194.1; -.
RW Hypothetical protein; Complete proteome.
SQ SEQUENCE 122 AA; 12657 MW; A4F5F11BACB7CE44 CRC64;

Query Match 1.2%; Score 8; DB 16; Length 122;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43
Db 114 AAAASAGP 121

RESULT 20
QYDE6 PRELIMINARY; PRT; 124 AA.
AC QYDE6;
DT 01-NOV-1999 (TREMBLrel. 12, Created)
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Hypothetical protein APE0967.
GN APE0967.
OS Aeropyrum pernix.
OC Archaea; Crenarchaeota; Thermoprotei; Desulfurococcales;
OC Desulfurococaceae; Aeropyrum.
OX NCBI_TaxID=56636;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=K1;
RX MEDLINE=99310339; PubMed=10382966;
RA Kawarabayashi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Y.,
RA Jin-no K., Takahashi M., Sekine M., Baba S.-I., Ankai A., Kosugi H.,
RA Hosoyama A., Fukui S., Nagai Y., Nishijima K., Nakazawa H.,
RA Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudoh Y.,
RA Yamazaki J., Kushiida N., Oguchi A., Aoki K.-I., Kubota K.,
RA Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
RT "Complete genome sequence of an aerobic hyper-thermophilic
RT crenarchaeon, Aeropyrum pernix K1.";
RL DNA Res 6:83-101(1999).
DR EMBL; AF000060; BAA79551.1; -.
RW Hypothetical protein; Complete proteome.
SQ SEQUENCE 124 AA; 12205 MW; 786701A8018A6705 CRC64;

Query Match 1.2%; Score 8; DB 17; Length 124;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 581 AAATRAAPS 588
Db 4 AAATRAAPS 11

RESULT 21
Q9LX88 PRELIMINARY; PRT; 130 AA.
AC Q9LX88;
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)

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OC	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OX	Ehrhartioideae; Oryzeae; Oryza.
OCX	NCEI_TaxID=39947;
OC	[1]
RN	SEQUENCE FROM N.A.
RP	STRAIN=cv. Nipponbare;
RC	Buell C.R., Yuan Q., Ouyang S.; Liu J., Gansberger K., Kim M.M.,
RA	Overton II L.L., Bera J.J., Tsitrin T.; Krol M.I., Jarrahi B.B.,
RA	Jin S.S., Koo H., Zismann V., Heiao J., Blunt S., Vanaken S.B.,
RA	Uterback T.T., Feldblum T.V., Yang Q.Q., Haas B.J., Suh B.E.,
RA	Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.,
RT	"Oryza sativa chromosome 10 BAC OSJNB0053C23 genomic sequence.";
RL	Submitted (JUL-2002) to the EMBL/GenBank/DDJB databases.
RL	[2]
RP	SEQUENCE FROM N.A.
RC	STRAIN=cv. Nipponbare;
RA	Buell C.R., Yuan Q., Ouyang S.; Liu J., Gansberger K., Kim M.M.,
RA	Overton II L.L., Bera J.J., Tsitrin T.; Krol M.I., Jarrahi B.B.,
RA	Jin S.S., Koo H., Zismann V., Heiao J., Blunt S., Vanaken S.B.,
RA	Uterback T.T., Feldblum T.V., Yang Q.Q., Haas B.J., Suh B.E.,
RA	Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.,
RT	"Oryza sativa chromosome 10 BAC OSJNB003A07 genomic sequence.";
RL	Submitted (AUG-2002) to the EMBL/GenBank/DDJB databases.
DR	EMBL; AC092389; AAM8615.1; -;
DR	EMBL; AC113948; AAM94527.1; -;
DR	Gnanesan; Q8LAD4; -;
DR	Interpro; IPR000104; Antifreeze_1.
DR	PRINTS; PR00308; ANTIFREEZE1.
KW	Hypothetical protein.
SK	SEQUENCE 151 AA; 15015 MW; 8E2A692E8A922E19 CRC64;
QY	Query Match 1.2%; Score 8; DB 10; Length 151;
DB	Best Local Similarity 100.0%; Pred. No. 25;
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps
QY	33 AAAAASAS 40
DB	
	64 AAAAASAS 71
RESULT 23	
Q13222	PRELIMINARY; PRT; 203 AA.
ID	Q13222
AC	Q13222
DT	01-NOV-1996 (TrEMBLrel. 01, Created)
DT	01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DE	01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE	GATA-4 protein (Fragment).
DE	GATA-4.
OS	Homo sapiens (Human).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OCX	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OCX	NCEI_TaxID=9606;
OC	[1]
RN	SEQUENCE FROM N.A.
RP	Wood S., Yaremko M.L., Schertzer M.;
RT	"Localization of human GATA4 to 8p23 maps chromosomal breakpoints
RT	disrupting syntenic regions between human 8p and mouse 14 to the Clu-Gata4
RT	interval";
RL	Submitted (JUN-1995) to the EMBL/GenBank/DDJB databases.
RL	EMBL; U28835; AAA70335.1; -;
FT	NON TER 203
FP	SEQUENCE 203 AA; 20095 MW; 7C238D931655F208 CRC64;
SEQ	
	1.2%; Score 8; DB 4; Length 203;
	Best Local Similarity 100.0%; Pred. No. 33;
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps
QY	36 AAAASAGP 43
DB	
	175 AAAASAGP 182



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DE SD24069p.
GN CG3386.
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RA Scapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
RA George R., Gonzalez M., Guarin H., Kronmiller B., Li P., Liao G.,
RA Miranda A., Mungall C.J., Nunoo J., Pacleb J., Paragas V., Park S.,
RA Patel S., Phouanavong S., Wan X., Yu C., Lewis S.E., Rubin G.M.,
RA Celniker S.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AY19266; AAM5126.1; -.
DR FlyBase; FBgn0035152; CG3386.
DR InterPro; IPR006578; MADP.
DR SMART; SM00595; MADP; 1.
SQ SEQUENCE 288 AA; 33776 MW; 7FC9208DA19B76B2 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 288;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ENSIGNSL 627
DB 200 ENSIGNSL 207

RESULT 29
Q9W0P0 PRELIMINARY; PRT; 288 AA.
AC Q9W0P0
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DE 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
DE CG3386 protein.
GN CG3386.
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Ananides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan X.H., Doyle C., Baxter E.G., Helt J.G., Nelson C.R., Miklos G.L.G.,
RA Abail J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Balw R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Borchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busch D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablo S., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Folsler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Ralp D., Lei Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,

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RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Sidenkiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
DR EMBL; AE003469; ABE47403.1; -.
DR FlyBase; FBgn0035152; CG3386.
SQ SEQUENCE 288 AA; 33748 MW; 64C1B104B198210C CRC64;

Query Match 1.2%; Score 8; DB 5; Length 288;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ENSIGNSL 627
DB 200 ENSIGNSL 207

RESULT 30
Q8S1L3 PRELIMINARY; PRT; 314 AA.
AC Q8S1L3
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE P0683B11.25 protein.
GN P0683B11.25.
OS Oryza sativa (japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzaceae; Oryza.
OX NCBI_TaxID=39947;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=cv. Nipponbare;
RA Sasaki T., Matsumoto T., Yamamoto K.;
RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC
RT clone: P0683B11."
RL Submitted (FEB-2001) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AP003288; BAB89836.1; -.
DR Gramene; Q8S1L3; -.
SQ SEQUENCE 314 AA; 33402 MW; A351C0C092C3A4F1 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 314;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAT 584
DB 24 AATSAAT 31

RESULT 31
Q8RYV5 PRELIMINARY; PRT; 320 AA.
AC Q8RYV5
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE P0047F02.3 protein.
GN P0047F02.3.
OS Oryza sativa (japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

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XC Ehrhartoideae; Oryzeae; Oryza.  
 XX NCBI\_TaxID=39947;  
 XN [1]  
 XP SEQUENCE FROM N.A.  
 IC STRAIN=CV. Nipponbare;  
 IA Sasaki T., Matsumoto T., Yamamoto K.;  
 T "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC  
 T clone: P0047F09."  
 L Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.  
 R EMBL: AP004145; BAB86267.1; -  
 R Gramene; O8RYV5; -  
 Q SEQUENCE 320 AA; 34155 MW; 7564F3D0F44815A2 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 320;  
 Best Local Similarity 100.0%; Pred.No. 49;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 578 ATSAATA 585  
 [1]|||||||  
 b 18 ATSAATA 25

RESULT 32

8YBK2  
 D Q8YBK2 PRELIMINARY; PRT; 335 AA.  
 C Q8YBK2;  
 T 01-MAR-2002 (TREMBlrel. 20, Created)  
 T 01-MAR-2002 (TREMBlrel. 20, Last sequence update)  
 T 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 E Bndo-type 6-aminohexanoate OLIGOMER hydrolase.  
 N BMEI10898.  
 S Brucella melitensis.  
 C Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
 C Brucellaceae; Brucella.  
 X NCBI\_TaxID=29459;  
 [1]  
 P SEQUENCE FROM N.A.  
 STRAIN=16M / ATCC 23456 / Biotype 1;  
 MEDLINE=20020109; PubMed=1175688;  
 DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Muler C., Los T.,  
 Ivanova N., Anderson I., Bhattacharyya A., Lykidis A., Reznik G.,  
 Jakovonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Goltzman E.,  
 Selkov B., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J.,  
 Haselkorn R., Kypides N., Overbeek R.,  
 "The genome sequence of the facultative intracellular pathogen  
 Brucella melitensis";  
 Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).  
 EMBL: AE009724; AAL54140.1; -  
 InterPro: IPR005321; Peptidase\_T4.  
 Pfam: PF03576; Peptidase\_S58; 1.  
 Complete proteome.  
 Q SEQUENCE 335 AA; 34095 MW; 81B48877BB6860CD CRC64;

Query Match 1.2%; Score 8; DB 16; Length 335;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 582 AATAAPSG 589  
 [1]|||||||  
 b 134 AATAAPSG 141

RESULT 33

GRF2  
 Q8GRF2 PRELIMINARY; PRT; 339 AA.  
 Q8GRF2;  
 T 01-MAR-2003 (TREMBlrel. 23, Created)  
 T 01-MAR-2003 (TREMBlrel. 23, Last sequence update)  
 T 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 Vlp23 gene homologue.  
 WPB.  
 Borrelia duttonii.  
 Plasmid 44-kb linear plasmid.

OC Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Borrelia.  
 OX NCBI\_TaxID=40834;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=LY;  
 RA Tabuchi N., Mitani H., Seino S., Fukunaga M.;  
 "The 44-kb linear plasmid in the relapsing fever agent Borrelia  
 duttonii serve as a preservation of vmp genes.";  
 RT Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.  
 RL EMBL: AB073701; BAC22662.1; -  
 DR Plasmid.  
 KW Plasmid.  
 Q SEQUENCE 339 AA; 35125 MW; 9CAB8427F8BB8F17 CRC64;

Query Match 1.2%; Score 8; DB 2; Length 339;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 AIAAASA 41  
 [1]|||||||  
 Db 200 AIAAASA 207

RESULT 34

Q8C812  
 ID Q8C812 PRELIMINARY; PRT; 339 AA.  
 AC Q8C812;  
 DT 01-MAR-2003 (TREMBlrel. 23, Created)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 DE General transcription factor Iia.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Cerebellum;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 60,770 full-length cDNAs";  
 RL Nature 420:563-573(2002).  
 DR EMBL: AK048711; BAC33430.1; -  
 Q SEQUENCE 339 AA; 37252 MW; F7294010B5FD23AF CRC64;

Query Match 1.2%; Score 8; DB 11; Length 339;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 579 TSAATAA 586  
 [1]|||||||  
 Db 97 TSAATAA 104

RESULT 35

Q8FWU6  
 ID Q8FWU6 PRELIMINARY; PRT; 369 AA.  
 AC Q8FWU6;  
 DT 01-MAR-2003 (TREMBlrel. 23, Created)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 DE Conserved hypothetical protein.  
 GN BRA0349.  
 OS Brucella suis.  
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
 OC Brucellaceae; Brucella.  
 OX NCBI\_TaxID=29461;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=1330 / Biovar 1;  
 RX MEDLINE=22247741; PubMed=12271122;  
 Paulsen I.T., Seshadri R., Nelson K.E., Eisen J.A., Heidelberg J.F.,



RA Read T.D., Dodson R.J., Umavam L., Brinkac L.M., Beanan M.J.,  
 RA Daugherty S.C., Deboy R.T., Durkin A.S., Kolonay J.F., Madupu R.,  
 RA Nelson W.C., Ayodeji B., Kral M., Shetty J., Malik J., Van Aken S.E.,  
 RA Riedmuller S., Tettelin H., Gill S.R., White O., Salzberg S.L.,  
 RA Hoover D.L., Lindler B.E., Halling S.M., Boyle S.M., Fraser C.M.,  
 RT "The Brucella suis genome reveals fundamental similarities between  
 RT animal and plant pathogens and symbionts."  
 DR EMBL; A014534; AN33547.1; --  
 DR Proc. Natl. Acad. Sci. U.S.A. 99:13143-13153 (2002).  
 DR TIGR; BRA0349; --  
 KW Hypothetical protein; Complete proteome.  
 SQ SEQUENCE 368 AA; 37404 MW; 6D1BCFE806B027FE CRC64;  
 Query Match 1.2%; Score 8; DB 16; Length 368;  
 Best Local Similarity 100.0%; Pred. No. 55;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 582 AATAAPSG 589  
 Db 167 AATAAPSG 174  
 RESULT 36  
 ID O08949 PRELIMINARY; PRT; 377 AA.  
 AC O08949;  
 DT 01-JUL-1997 (TrEMBLrel. 04, Created)  
 DT 01-JUL-1997 (TrEMBLrel. 04, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE TFIIA large subunit.  
 OS Rattus norvegicus (Rat).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OC NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Sprague-Dawley;  
 RA Upadhyaya A.B., DeJong J.,  
 RL Submitted (APR-1997) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AF000943; AB58716.1; --  
 DR HSP; P32773; IYTF.  
 DR TRANSFAC; T02231; --  
 DR InterPro; IPR004855; TFIIA.  
 DR Pfam; PF03153; TFIIA; 1.  
 SQ SEQUENCE 377 AA; 41563 MW; 205FEB2B24E8D71 CRC64;  
 Query Match 1.2%; Score 8; DB 11; Length 377;  
 Best Local Similarity 100.0%; Pred. No. 56;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 579 TSAATAAA 586  
 Db 135 TSAATAAA 142  
 RESULT 37  
 ID Q99PM3 PRELIMINARY; PRT; 378 AA.  
 AC Q99PM3;  
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE TFIIA alpha/beta.  
 GN GTF2A1.  
 OS Mus musculus (Mouse).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OC NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Testis;  
 RX MEDLINE=21093258; PubMed=11159353;  
 RA Han S., Zhou L., Upadhyaya A., Hyun Lee S., Parker K.L., DeJong J.,

RT "TFIIAalpha/beta-Like Factor Is Encoded by a Germ Cell-Specific Gene  
 RT Whose Expression Is Up-Regulated with Other General Transcription  
 RT Factors During Spermatogenesis in the Mouse."  
 RL Biol. Reprod. 64:507-517 (2001).  
 DR EMBL; AF250834; AB50431.1; --  
 DR HSP; P32773; IYTF.  
 DR MGD; MGI:11933277; Gtf2a1.  
 DR InterPro; IPR004855; TFIIA.  
 DR Pfam; PF03153; TFIIA; 1.  
 SQ SEQUENCE 378 AA; 41484 MW; B49D7518867CE235 CRC64;  
 Query Match 1.2%; Score 8; DB 11; Length 378;  
 Best Local Similarity 100.0%; Pred. No. 56;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 579 TSAATAAA 586  
 Db 136 TSAATAAA 143  
 RESULT 38  
 ID Q9VFP2 PRELIMINARY; PRT; 431 AA.  
 AC Q9VFP2;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE CG12537 protein.  
 GN CG12537  
 OS Drosophila melanogaster (Fruit fly).  
 CC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 CC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 CC Ephydroidea; Drosophilidae; Drosophila.  
 OC NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BERKELEY;  
 RX MEDLINE=20196006; PubMed=10731132;  
 RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.P.,  
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,  
 RA Brandon R.C., Rogers Y.-H.C., Blazek R.G., Champe M., Pfeiffer B.D.,  
 RA Wan X.H., Doyle C., Baxter B.G., Helt G., Nelson C.R., Miklos G.L.G.,  
 RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfankuch C., Baldwin D.,  
 RA Ballew R.M., Basu P., Baxendale J., Bayraktaroglu L., Beasley E.M.,  
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,  
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,  
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
 RA Durbin K.J., Evangelista C.C., Ferraz C., Fertiera S., Fleischmann W.,  
 RA Fosler C., Gabriellian A.B., Garg N.S., Gelbart W.M., Glasser K.,  
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,  
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun B.,  
 RA Swirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 RA Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,  
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu X., Smith H.O.,



A Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
 T "The genome sequence of *Drosophila melanogaster*."  
 L Science 287:2185-2195(2000).  
 R EMBL; AF03702; AAF55008.1; -  
 R FlyBase; FBgn0038193; CG12537.  
 Q SEQUENCE 431 AA; 44918 MW; DF3123E89F535C6 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 431;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 577 AATSAAT 584  
 |||||  
 b 67 AATSAAT 74

RESULT 39  
 16365  
 C Q16365 PRELIMINARY; PRT; 439 AA.  
 T 01-NOV-1996 (T-EMBLrel. 01, Created)  
 T 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)  
 T 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 E GATA-4 transcription factor.  
 S Homo sapiens (Human).  
 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 X NCBI\_TaxID=9606;  
 N [1]  
 P SEQUENCE FROM N.A.  
 X MEDLINE=95311982; PubMed=7791790;  
 A Yamagata T., Nishida J., Sakai R., Tanaka T., Honda H., Hirano N.,  
 A Mano H., Yazaki Y., Hirai H.;  
 T "Of the GATA-binding proteins, only GATA-4 selectively regulates the  
 T human interleukin-5 gene promoter in interleukin-5-producing cells  
 L which express multiple GATA-binding proteins.";  
 L Mol. Cell. Biol. 15:3830-3839(1995).  
 R EMBL; D78260; BA011334.1; -  
 R HSSP; P17679; 1GNF.  
 R InterPro; IPR000679; Znf\_GATA.  
 R Pfam; PF00320; GATA; 2.  
 R PRINTS; PR00619; GATAZNFINGER.  
 R SMART; SM00401; Znf\_GATA; 2.  
 R PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 R PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 Q SEQUENCE 439 AA; 45281 MW; 8E316C0C04A8B67D CRC64;

Query Match 1.2%; Score 8; DB 4; Length 439;  
 Best Local Similarity 100.0%; Pred. No. 64;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 173 AAAASAGP 180

RESULT 40  
 3NIMS  
 C Q8NIMS PRELIMINARY; PRT; 442 AA.  
 T 01-OCT-2002 (T-EMBLrel. 22, Created)  
 T 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)  
 T 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 E Transcription factor GATA-4.  
 S Sus scrofa (Pig).  
 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 X NCBI\_TaxID=9823;  
 N [1]  
 P SEQUENCE FROM N.A.  
 X TISSUE=Ovary;  
 A Gillio-Weina C., Hui Y.Y., LaVoie H.A.;  
 T "GATA-4 and GATA-6 transcription factors: expression,

RT immunohistochemical localization, and function in porcine ovaries.";  
 RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AY115491; AAM63546.1; -  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; Znf\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 SQ SEQUENCE 442 AA; 44603 MW; 328AABD0B0E53051 CRC64;

Query Match 1.2%; Score 8; DB 6; Length 442;  
 Best Local Similarity 100.0%; Pred. No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 176 AAAASAGP 183

RESULT 41  
 Q8V187  
 ID Q8V187 PRELIMINARY; PRT; 442 AA.  
 AC Q8V187;  
 DT 01-MAR-2002 (T-EMBLrel. 20, Created)  
 DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)  
 DT 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 DE Transcription factor GATA-4.  
 GN GATA4 OR GATA-4.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Balb/C; TISSUE=Testis;  
 RA Yomogida K.;  
 RT "Mus musculus transcription factor GATA-4 complete cDNA.";  
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AB075549; BAB78731.1; -  
 DR MGD; MGI:95664; Gata4.  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; Znf\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 SQ SEQUENCE 442 AA; 44709 MW; 8C22D23E2B34F37 CRC64;

Query Match 1.2%; Score 8; DB 11; Length 442;  
 Best Local Similarity 100.0%; Pred. No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 176 AAAASAGP 183

RESULT 42  
 Q9U2V9  
 ID Q9U2V9 PRELIMINARY; PRT; 444 AA.  
 AC Q9U2V9;  
 DT 01-MAY-2000 (T-EMBLrel. 13, Created)  
 DT 01-MAY-2000 (T-EMBLrel. 13, Last sequence update)  
 DT 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 DE Y116A8A.9 protein.  
 GN Y116A8A.9  
 OS Caenorhabditis elegans.  
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;  
 OC Rhabditidae; Peloderinae; Caenorhabditis.  
 OX NCBI\_TaxID=6239;  
 RN [1]  
 RP SEQUENCE FROM N.A.

RA McMurray A.A.;  
 RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99069613; PubMed=9851916;  
 RA none;  
 RT "Genome sequence of the nematode C.elegans: A platform for  
 investigating biology."  
 RL Science 282:2012-2018 (1998).  
 DR EMBL; AL117205; CAB55167.1; -.  
 DR HSP; P50579; 186A.  
 DR WormPep; Y116A8A.9; CE24146.  
 DR InterPro; IPR002468; MAP2.  
 DR InterPro; IPR001714; Methanino Phase.  
 DR InterPro; IPR000994; Peptidase\_M24.  
 DR Pfam; PF00557; Peptidase\_M24; 1.  
 DR PRINTS; PF00599; MAPEPTIDASE.  
 DR TIGRfams; TIGR00501; met\_Pdase\_II; 1.  
 SQ SEQUENCE 444 AA; 49294 MW; 45BB986DE68BDA67 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 444;  
 Best Local Similarity 100.0%; Pred.No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAAATAAP 587  
 Db 58 SAAATAAP 65  
 |||||

RESULT 43  
 Q9M023  
 ID Q9M023 PRELIMINARY; PRT; 447 AA.  
 AC Q9M023  
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Hypothetical 50.4 kDa protein.  
 GN F7A7.30.  
 OS Arabidopsis thaliana (Mouse-ear cress).  
 OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; Core eudicots; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsids.  
 OX NCBI\_TaxID=3702;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Bevan M., Pohl T., Weissenegger T., Bancroft I., Mewes H.W., Rudd S.,  
 RA Lemcke K., Mayer K.F.X.;  
 RA Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RA EU Arabidopsis sequencing project;  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AL161946; CAB22357.1; -.  
 DR InterPro; IPR006968; DUF647.  
 DR Pfam; PF04884; DUF647; 1.  
 KW Hypothetical protein.  
 SQ SEQUENCE 447 AA; 50387 MW; 18FBC2980E3B744 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 447;  
 Best Local Similarity 100.0%; Pred.No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 579 TSAATAAP 586  
 Db 107 TSAATAAP 114  
 |||||

RESULT 44  
 Q942G0  
 ID Q942G0 PRELIMINARY; PRT; 468 AA.  
 AC Q942G0  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DB P0480C01.6 protein.  
 GN P0480C01.6  
 OS Oryza sativa (Rice).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 OC Ehrhartoideae; Oryzaceae; Oryza.  
 OX NCBI\_TaxID=4530;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=cv. Nipponbare;  
 RA Sasaki T., Matsumoto T., Yamamoto K.;  
 RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC  
 clone: P0480C01.6";  
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AP003453; BAB68046.1; -.  
 DR Gramene; Q942G0; -.  
 SQ SEQUENCE 468 AA; 48466 MW; 47AF87C3827B52F4 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 468;  
 Best Local Similarity 100.0%; Pred.No. 68;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 577 AATSAAT 584  
 Db 249 AATSAAT 256  
 |||||

RESULT 45  
 Q91349  
 ID Q91349 PRELIMINARY; PRT; 547 AA.  
 AC Q91349  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 23, Last annotation update)  
 DE Nuclear pore complex glycoprotein p52.  
 OS Xenopus laevis (African clawed frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;  
 OC Xetopodinae; Xenopus.  
 OX NCBI\_TaxID=8355;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=92007945; PubMed=1915419;  
 RA Cordes V., Waizenegger I., Krohne G.;  
 RT "Nuclear pore complex glycoprotein p52 of Xenopus laevis and mouse:  
 RT cDNA cloning and identification of its glycosylated region."  
 RL Eur. J. Cell Biol. 55:31-47 (1991).  
 DR EMBL; S59344; AAB19954.1; -.  
 SQ SEQUENCE 547 AA; 55934 MW; BC703F1F7AEFA320 CRC64;

Query Match 1.2%; Score 8; DB 13; Length 547;  
 Best Local Similarity 100.0%; Pred.No. 78;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 582 AATAAPSG 589  
 Db 34 AATAAPSG 41  
 |||||

RESULT 46  
 Q8EPS0  
 ID Q8EPS0 PRELIMINARY; PRT; 591 AA.  
 AC Q8EPS0  
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Aspartyl-tRNA synthetase (EC 6.1.1.12).  
 GN ASPS OR OE2019  
 OS Oceanobacillus thelyensis.  
 OC Bacteria; Firmicutes; Bacillales; Oceanobacillus.  
 OX NCBI\_TaxID=182710;  
 RN [1]

```

3P SEQUENCE FROM N.A.
3C STRAIN=HTE831 / DSM 14371 / JCM 11309;
3X MEDLINE=22220767; PubMed=12235376;
3A Takami H., Takaki Y., Uchiyama I.;
3T "Genome sequence of Oceanobacillus ihayensis isolated from the Iheya
3T Ridge and its unexpected adaptive capabilities to extreme
3T environments."
3L Nucleic Acids Res. 30:3927-3935(2002).
3R EMBL; AP004599; BAC13975.1; -
3Q SEQUENCE 591 AA; 66933 MW; DPAEF504198CCF0B CRC64;

Query Match 1.2%; Score 8; DB 16; Length 591;
Best Local Similarity 100.0%; Pred. No. 83;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3Y 584 TAAPSGVS 591
3b 566 TAAPSGVS 573

RESULT 47
3QFK10 PRELIMINARY; PRT; 601 AA.
AC Q9FK10;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Receptor protein kinase-like protein.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsi.
OX NCBI_TaxID=3702;
RN [1]
RC SEQUENCE FROM N.A.
RP STRAIN=Columbia;
RX MEDLINE=9403884; PubMed=9734815;
RA Kotani H., Nakamura Y., Sato S., Asamizu E., Kaneko T., Miyajima N.,
RA Tabata S.;
RT "Structural analysis of Arabidopsis thaliana chromosome 5. VI.
RT Sequence features of the regions of 1,367,185 bp covered by 19
RT physically assigned P1 and PAC clones."
RI DNA Res. 5:203-216(1998).
DR EMBL; AB013388; BAB09794.1; -
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007090; LRR_plant.
DR InterPro; IPR000719; Prot_kinase.
DR Pfam; PF00560; LRR; 5.
DR PRINTS; PF00069; pkinase; 1.
DR PROSITE; PS00019; LEUCICHRP.
DR PRODOM; PD000001; Prot_kinase; 1.
DR PROSITE; PS00502; LRR_PS; 1.
DR PROSITE; PS00011; PROTEIN_KINASE_DOM; 1.
KW ATP-binding; Kinase; Transferase.
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Query Match 1.2%; Score 8; DB 10; Length 601;
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3Y 271 LNLAHNLL 278
3b 189 LNLAHNLL 196

RESULT 48
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AC Q8ST6;
DT 01-MAR-2002 (TrEMBLrel. 20, Created)
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)

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DE Transcription factor glial cells missing 2.
GN Q93858
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RC SEQUENCE FROM N.A.
RP Hosoya T., Iwasaki Y., Osato M., Higashi-Takizawa C., Akiyama-Oda Y.,
RA Ikenaka K., Hiromi Y., Hotta Y.;
RT "Binary cell-fate decisions in Drosophila neurogenesis and
RT hematopoiesis regulated by Gcm-motif transcription factors."
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
RL EMBL; AB056467; BAB3120.1; -
DR FlyBase; FBgn0019809; Gcm2.
DR InterPro; IPR003902; GCM_motif.
DR Pfam; PF03615; GCM; 1.
SQ SEQUENCE 606 AA; 65751 MW; C80E2CB6E903D947 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 606;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3Y 581 AAATAAPS 588
3b 357 AAATAAPS 364

RESULT 49
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AC Q9VLA2; Q9NC02;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Q93858 protein (Glide2).
GN Q9VLA2 OR CG3858.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
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RP STRAIN=Berkley;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brannon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Bernan B.P., Bhandari D., Bolstad S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
RA Burtis K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes N., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Fosler C., Gabrielian A.B., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong P., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattel B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,

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RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 RA Shue B.C., Siden-Kiamos I., Stimpson M., Skupski M.P., Smith T.,  
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 RA Svirskaas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissbach J.,  
 RA Williams S.M., Woodgate T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
 RT "The genome sequence of *Drosophila melanogaster*.";  
 RL Science 287:2185-2195(2000).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RA Celniker S.E., Adams M.D., Kronmiller B., Wan K.H., Holt R.A.,  
 RA Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,  
 RA Banson J., An H., Baldwin D., Banton J., Beeson K.Y., Busam D.A.,  
 RA Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,  
 RA Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,  
 RA Ferriera S., Frise E., Galle R.P., Garg N.S., George R.A.,  
 RA Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,  
 RA Ibegwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,  
 RA McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunoo J.,  
 RA Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B.,  
 RA Phouanavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,  
 RA Stapleton M., Strong R., Svirskaas R., Tector C., Tyler D.,  
 RA Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;  
 RT "Sequencing of *Drosophila melanogaster* genome.";  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RA Mitra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,  
 RA Hradecky P., Huang Y., Kaminker J.S., Prochnik S.E., Smith C.D.,  
 RA Tupy J.L., Bergman C., Berman B., Carlson J.W., Celniker S.E.,  
 RA Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N.,  
 RA Kronmiller B., Marshall B., Millburn G., Richter J., Russo S.,  
 RA Searle S.M.J., Smith E., Shu S., Smutniak F., Whitfield E.,  
 RA Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;  
 RT "Annotation of *Drosophila melanogaster* genome.";  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RA Adams M.D., Celniker S.E., Gibbs R.A., Rubin G.M., Venter C.J.;  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 RN [5]  
 RP SEQUENCE FROM N.A.  
 RA FlyBase;  
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.  
 RN [6]  
 RP SEQUENCE FROM N.A.  
 RA Kammerer M., Giangrande A.;  
 RT "glide2, a fly homolog of the glide/gcm gene.";  
 RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.  
 DR EMBL: AE003625; AAF52793.2; -;  
 DR EMBL: AF184664; AAF74349.1; -;  
 DR FlyBase; FBN0019809; gcm2.  
 DR InterPro; IPR003902; GCM\_motif.  
 DR Pfam; PF03615; GCM; 1.  
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Query Match 1.2%; Score 8; DB 5; Length 606;  
 Best Local Similarity 100.0%; Pred.No. 85;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AAATAAPS 588  
 DB 357 AAATAAPS 364

RESULT 50  
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 AC Q9WYD6;

DT 01-NOV-1999 (TRENBLrel. 12, Created)  
 DT 01-NOV-1999 (TRENBLrel. 12, Last sequence update)  
 DT 01-JUN-2001 (TRENBLrel. 17, Last annotation update)  
 DE Oligopeptide ABC transporter, periplasmic oligopeptide-binding  
 DE protein, putative.  
 GN TM0300.  
 OS Thermotoga maritima.  
 OC Bacteria; Thermotogae; Thermotogales; Thermotogaceae; Thermotoga.  
 OC NCBI\_TaxID=2336;  
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 RP SEQUENCE FROM N.A.  
 RC STRAIN=MSB8 / DSM 3109;  
 RX MEDLINE=99287316; PubMed=10360571;  
 RA Nelson K.E., Clayton R.A., Gill S.R., Gwinn M.L., Dodson R.J.,  
 RA Haft D.H., Hickley E.K., Peterson J.D., Nelson W.C., Ketchum K.A.,  
 RA McDonald L., Utterback T.R., Malek J.A., Linher K.D., Garrett M.M.,  
 RA Stewart A.M., Cotton M.D., Pratt M.S., Phillips C.A., Richardson D.,  
 RA Heidelberg J., Sutton G.G., Fleischmann R.D., Eisen J.A., White O.,  
 RA Salzberg S.L., Smith H.O., Venter J.C., Fraser C.M.;  
 RT "Evidence for lateral gene transfer between Archaea and Bacteria from  
 RT genome sequence of *Thermotoga maritima*.";  
 RL Nature 399:323-329(1999).  
 DR EMBL: AE001712; AAD35388.1; -;  
 DR TIGR; TM0300; -;  
 DR InterPro; IPR000914; SBP\_bac\_5.  
 DR Pfam; PF00496; SBP\_bac\_5; 2.  
 KW Complete proteome.  
 SQ SEQUENCE 611 AA; 70823 MW; 0FDE18A2D07FA76F CRC64;

Query Match 1.2%; Score 8; DB 16; Length 611;  
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QY 383 KWLLPNGT 390  
 DB 422 KWLLPNGT 429

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GenCore version 5.1.1.6  
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searched: 328717 seqs, 42310858 residues

ord size : 6

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	32	4.9	224	4	US-09-482-273-174	Sequence 174, App
3	32	4.9	302	4	US-09-482-273-105	Sequence 105, App
4	19	2.9	640	4	US-09-996-243-501	Sequence 501, App
5	9	1.4	711	4	US-09-228-986-79	Sequence 79, Appl
6	8	1.2	36	1	US-08-425-069-37	Sequence 37, Appl
7	8	1.2	36	1	US-08-209-747-48	Sequence 48, Appl
8	8	1.2	36	1	US-08-458-298-48	Sequence 48, Appl
9	8	1.2	36	2	US-08-317-844B-37	Sequence 37, Appl
10	8	1.2	166	4	US-09-252-991A-20684	Sequence 20684, A
11	8	1.2	493	3	US-08-556-978B-59	Sequence 59, Appl
12	8	1.2	529	3	US-09-247-806-2	Sequence 2, Appl
13	8	1.2	595	1	US-08-425-069-4	Sequence 4, Appl
14	8	1.2	595	2	US-08-317-844B-4	Sequence 4, Appl
15	8	1.2	920	3	US-08-317-844B-8	Sequence 8, Appl
16	7	1.1	7	2	US-08-666-473-18	Sequence 18, Appl
17	7	1.1	13	5	PCT-US95-0412X-52	Sequence 52, Appl
18	7	1.1	69	4	US-09-134-001C-4592	Sequence 4592, Ap
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22	7	1.1	129	4	US-09-732-210-1518	Sequence 1518, Ap
23	7	1.1	129	4	US-09-732-210-1519	Sequence 1519, Ap
24	7	1.1	129	4	US-09-732-210-1520	Sequence 1520, Ap
25	7	1.1	130	2	US-08-726-306A-18	Sequence 18, Appl
26	7	1.1	130	4	US-09-732-210-1517	Sequence 1517, Ap
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38	7	1.1	232	2	US-08-456-670B-39	Sequence 39, Appl
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55	7	1.1	334	4	US-09-252-991A-20599	Sequence 20599, A
56	7	1.1	342	4	US-09-252-991A-22970	Sequence 22970, A
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78	7	1.1	478	2	US-08-456-670B-40	Sequence 40, Appl
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81	7	1.1	484	1	US-08-482-847-26	Sequence 26, Appl
82	7	1.1	489	2	US-08-752-307B-3	Sequence 3, Appl
83	7	1.1	489	3	US-09-330-317B-18	Sequence 18, Appl
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85	7	1.1	489	4	US-09-991-326-3	Sequence 3, Appl
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97	7	1.1	615	4	US-09-252-991A-23524	Sequence 23524, A
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7	1.1	3038	2	US-09-404-406C-2	Sequence 2, Appli
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6	0.9	7	2	US-08-666-473-19	Sequence 19, Appl
6	0.9	7	2	US-08-666-473-20	Sequence 20, Appl
6	0.9	8	2	US-08-666-473-12	Sequence 12, Appl
6	0.9	9	3	US-08-159-339A-154	Sequence 15A, App
6	0.9	10	2	US-07-814-420-21	Sequence 21, Appl
6	0.9	10	2	US-07-812-421-21	Sequence 21, Appl
6	0.9	10	4	US-08-197-484-74	Sequence 74, Appl
6	0.9	10	5	PCT-US95-02121-74	Sequence 74, Appl
6	0.9	11	2	US-07-814-420-11	Sequence 11, Appl
6	0.9	11	2	US-07-812-421-11	Sequence 11, Appl
6	0.9	12	1	US-08-433-854-43	Sequence 43, Appl
6	0.9	12	1	US-08-433-854-45	Sequence 45, Appl
6	0.9	12	1	US-08-174-745A-43	Sequence 43, Appl
6	0.9	12	1	US-08-174-745A-45	Sequence 45, Appl
6	0.9	12	2	US-08-195-947-45	Sequence 45, Appl
6	0.9	12	2	US-08-195-947-45	Sequence 45, Appl
6	0.9	12	2	US-08-531-525-8	Sequence 8, Appli
6	0.9	12	2	US-08-433-885-43	Sequence 43, Appl

## ALIGNMENTS

RESULT 1  
US-09-986-243-229  
/ Sequence 229, Application US/09996243  
/ Patent No. 6478825  
/ GENERAL INFORMATION:  
/ APPLICANT: Ashkenazi, Avi J.  
/ APPLICANT: Baker, Kevin P.  
/ APPLICANT: Botstein, David  
/ APPLICANT: Desnoyers, Luc  
/ APPLICANT: Eaton, Dan L.  
/ APPLICANT: Ferrara, Napoleone  
/ APPLICANT: Fong, Sherman  
/ APPLICANT: Gerber, Hanspeter  
/ APPLICANT: Gerritsen, Mary E.  
/ APPLICANT: Goddard, Audrey  
/ APPLICANT: Godowski, Paul J.  
/ APPLICANT: Grimaldi, J. Christopher  
/ APPLICANT: Gurney, Austin L.

PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088742  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088810  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088824  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088826  
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 PRIOR FILING DATE: 1998-06-17  
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 PRIOR FILING DATE: 1998-06-17  
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 PRIOR FILING DATE: 1998-06-18  
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 PRIOR FILING DATE: 1998-06-24  
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 PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090542  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090557  
 PRIOR FILING DATE: 1998-06-24  
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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 4; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 61 CTRGGLSEVPQGISNTRYLMNMENNIQMIQADTFRHLHLEVLQJLGRNSIRQIEVGAFN 120  
 Db 61 CTRGGLSEVPQGISNTRYLMNMENNIQMIQADTFRHLHLEVLQJLGRNSIRQIEVGAFN 120  
 QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLRNPIESIPSYAFNRVPSLMRLDGE 180  
 Db 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLRNPIESIPSYAFNRVPSLMRLDGE 180  
 QY 181 LKXLEYISEGAPGELFNKYLNLGNCKNPKMNPITVLVGLLEEMSGNHPPETPGSFHG 240  
 Db 181 LKXLEYISEGAPGELFNKYLNLGNCKNPKMNPITVLVGLLEEMSGNHPPETPGSFHG 240  
 QY 241 LSSLAKLWFMNSQVSLIERNAPDGLASIVELNLAHNNLSIPHDLPFLRYLVELHLLHN 300  
 Db 241 LSSLAKLWFMNSQVSLIERNAPDGLASIVELNLAHNNLSIPHDLPFLRYLVELHLLHN 300  
 QY 301 PANCDCILMLAWMLREYIPTNSTCCGRCHAPMENRGRYLVVEVDQASFQCSAPFIMDAPR 360  
 Db 301 PANCDCILMLAWMLREYIPTNSTCCGRCHAPMENRGRYLVVEVDQASFQCSAPFIMDAPR 360  
 QY 361 DLNISEGEMAEIKCETTPMSSVKWLLPNTVLSHSHPRISVLNDGTLPNSHVLLSDTG 420  
 Db 361 DLNISEGEMAEIKCETTPMSSVKWLLPNTVLSHSHPRISVLNDGTLPNSHVLLSDTG 420  
 QY 421 VYTCWTVNAGNSAYLVNSTAELNLSYSPFTTVTETTSIPEDTTTRKYKVPVTTTS 480

Db 421 VYTCWTVNAGNSASAYLWSTAEIINTSNYSFFTTVTETTESPEDTKKXKPVPTTS 480  
QY 481 TGQOPAYTTSTVLITQTRVQKQAVAPATDITDKWQSLDEVMKTKIIGCFVAVTLLA 540  
Db 481 TGQOPAYTTSTVLITQTRVQKQAVAPATDITDKWQSLDEVMKTKIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEIPAAATSAATAPSGVSGEAVVLP 600  
Db 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEIPAAATSAATAPSGVSGEAVVLP 600  
QY 601 IHDHNINATYKPAHGAHTENSLGNSLHPTVTIISBPVLIQTHTKQKQVSTOI 653  
Db 601 IHDHNINATYKPAHGAHTENSLGNSLHPTVTIISBPVLIQTHTKQKQVSTOI 653

RESULT 2  
US-09-482-273-174  
; Sequence 174, Application US/09482273  
; Patent No. 6534631  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 71 Human Secreted Proteins  
; FILE REFERENCE: P2030P1  
; CURRENT APPLICATION NUMBER: US/09/482,273  
; CURRENT FILING DATE: 2000-01-13  
; EARLIER APPLICATION NUMBER: PCT/US99/15849  
; EARLIER FILING DATE: 1999-07-14  
; EARLIER APPLICATION NUMBER: 60/092,921  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092,922  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092,956  
; EARLIER FILING DATE: 1998-07-15  
; NUMBER OF SEQ ID NOS: 267  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 174  
; LENGTH: 224  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (76)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-482-273-174

Query Match 4.9%; Score 32; DB 4; Length 224;  
Best Local Similarity 100.0%; Pred. No. 1.1e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 173  
Db 153 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 184

RESULT 3  
US-09-482-273-105  
; Sequence 105, Application US/09482273  
; Patent No. 6534631  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 71 Human Secreted Proteins  
; FILE REFERENCE: P2030P1  
; CURRENT APPLICATION NUMBER: US/09/482,273  
; CURRENT FILING DATE: 2000-01-13  
; EARLIER APPLICATION NUMBER: PCT/US99/15849  
; EARLIER FILING DATE: 1999-07-14  
; EARLIER APPLICATION NUMBER: 60/092,921  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092,922  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092,956  
; EARLIER FILING DATE: 1998-07-15  
; NUMBER OF SEQ ID NOS: 267

; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 105  
; LENGTH: 302  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-482-273-105  
Query Match 4.9%; Score 32; DB 4; Length 302;  
Best Local Similarity 100.0%; Pred. No. 1.4e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 173  
Db 153 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 184

RESULT 4  
US-09-996-243-501  
; Sequence 501, Application US/09996243  
; Patent No. 6478825  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerbet, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C13  
; CURRENT APPLICATION NUMBER: US/09/996,243  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/087106  
; PRIOR FILING DATE: 1998-05-28  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087609



1	PRIOR APPLICATION NUMBER: 60/0899080
2	PRIOR FILING DATE: 1998-06-18
3	PRIOR APPLICATION NUMBER: 60/089947
4	PRIOR FILING DATE: 1998-06-19
5	PRIOR APPLICATION NUMBER: 60/089948
6	PRIOR FILING DATE: 1998-06-19
7	PRIOR APPLICATION NUMBER: 60/089952
8	PRIOR FILING DATE: 1998-06-19
9	PRIOR APPLICATION NUMBER: 60/090246
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15	PRIOR APPLICATION NUMBER: 60/090349
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18	PRIOR FILING DATE: 1998-06-23
19	PRIOR APPLICATION NUMBER: 60/090429
20	PRIOR FILING DATE: 1998-06-24
21	PRIOR APPLICATION NUMBER: 60/090431
22	PRIOR FILING DATE: 1998-06-24
23	PRIOR APPLICATION NUMBER: 60/090435
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25	PRIOR APPLICATION NUMBER: 60/090444
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34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090542
36	PRIOR FILING DATE: 1998-06-24
37	PRIOR APPLICATION NUMBER: 60/090557
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54	PRIOR FILING DATE: 1998-06-26
55	PRIOR APPLICATION NUMBER: 60/091360
56	PRIOR FILING DATE: 1998-07-01
57	PRIOR APPLICATION NUMBER: 60/091478
58	PRIOR FILING DATE: 1998-07-02
59	PRIOR APPLICATION NUMBER: 60/091544
60	PRIOR FILING DATE: 1998-07-01
61	PRIOR APPLICATION NUMBER: 60/091519
62	PRIOR FILING DATE: 1998-07-02
63	PRIOR APPLICATION NUMBER: 60/091626
64	PRIOR FILING DATE: 1998-07-02
65	PRIOR APPLICATION NUMBER: 60/091633
66	PRIOR FILING DATE: 1998-07-02
67	PRIOR APPLICATION NUMBER: 60/091978
68	PRIOR FILING DATE: 1998-07-07
69	PRIOR APPLICATION NUMBER: 60/091982
70	PRIOR FILING DATE: 1998-07-07
71	PRIOR APPLICATION NUMBER: 60/092182
72	PRIOR FILING DATE: 1998-07-09

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Query Match      2.9%; Score 19; DB 4; Length 640;
Best Local Similarity 100.0%; Pred. No. 9.2e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 151 ELMLRNPIESIPSYAFNR 169
Db 152 ELMLRNPIESIPSYAFNR 170

RESULT 5
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; Sequence 79, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-79

Query Match      1.4%; Score 9; DB 4; Length 711;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 271 LMLAHHNLS 279
Db 259 LMLAHHNLS 267

RESULT 6
US-08-425-069-37
; Sequence 37, Application US/08425069
; Patent No. 5728810
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Hinman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; FILE OF INVENTION: A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5728810th Washington Street
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,069
; FILING DATE: 19-APR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-106P
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050

Query Match      1.4%; Score 9; DB 4; Length 711;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 271 LMLAHHNLS 279
Db 259 LMLAHHNLS 267

RESULT 6
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; Sequence 37, Application US/08425069
; Patent No. 5728810
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Hinman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; FILE OF INVENTION: A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5728810th Washington Street
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,069
; FILING DATE: 19-APR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-106P
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
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; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: nephila clavipes
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..36
; OTHER INFORMATION: /label= silk2_repeat
US-08-425-069-37

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Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
Db 26 AAAASAGP 33

RESULT 7
US-08-209-747-48
; Sequence 48, Application US/08209747
; Patent No. 5733771
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Colgin, Mark
; TITLE OF INVENTION: CDNAS Encoding Minor Ampullate Spider
; TITLE OF INVENTION: Silk Proteins
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,747
; FILING DATE: 14-MAR-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
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; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: C-terminal
; NAME/KEY: Peptide
; LOCATION: 1..36
; OTHER INFORMATION: /label= MasP2_repeat
; OTHER INFORMATION: /note= "see table 2"
US-08-209-747-48
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Query Match 1.2%; Score 8; DB 1; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 8

US-08-458-298-48  
; Sequence 48, Application US/08458298  
; Patent No. 5756677  
; GENERAL INFORMATION:  
; APPLICANT: Lewis, Randolph V.  
; APPLICANT: Colgin, Mark  
; TITLE OF INVENTION: CDNA's Encoding Minor Ampullate Spider  
; TITLE OF INVENTION: Silk Proteins  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: P.O. Box 747  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: USA  
; ZIP: 22040-3487  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/458,298  
; FILING DATE: 02-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/209,747  
; FILING DATE: 14-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1447-104P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 36 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: Peptide  
; FRAGMENT TYPE: C-terminal  
; FEATURE:  
; NAME/KEY: Peptide  
; LOCATION: 1..36  
; OTHER INFORMATION: /label= Masp2 repeat  
; OTHER INFORMATION: /note= "see Table 2"

## US-08-458-298-48

Query Match 1.2%; Score 8; DB 1; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 9

US-08-317-844B-37  
; Sequence 37, Application US/08317844B  
; Patent No. 5989894

## GENERAL INFORMATION:

; APPLICANT: Lewis, Randolph V.  
; APPLICANT: Xu, Ming  
; APPLICANT: Himan, Michael B.  
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
; NUMBER OF SEQUENCES: 62  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: 301 No. 5989894th Washington Street  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22046

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25

## CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/317,844B  
; FILING DATE: 04-OCT-1994  
; CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1447-105P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 241-1300  
; TELEFAX: (703) 241-2848  
; TELEX: 248345

## INFORMATION FOR SEQ ID NO: 37:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 36 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: not relevant

## MOLECULE TYPE: peptide

; HYPOTHEICAL: NO

; FRAGMENT TYPE: internal

; ORIGINAL SOURCE: nephila clavipes

; FEATURE:  
; NAME/KEY: Peptide  
; LOCATION: 1..36  
; OTHER INFORMATION: /label= silk2\_repeat

## US-08-317-844B-37

Query Match 1.2%; Score 8; DB 2; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 10

US-09-252-991A-20684  
; Sequence 20684, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 20684  
LENGTH: 166  
TYPES: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-20684

Query Match 1.2%; Score 8; DB 4; Length 166;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAAP 587  
DB 33 SAAATAAP 40

RESULT 11  
US-08-556-978B-59  
Sequence 59, Application US/08556978B  
Patent No. 6268169  
GENERAL INFORMATION:  
APPLICANT: FAHNESTOCK, STEPHEN F.  
TITLE OF INVENTION: NOVEL RECOMBINANTLY PRODUCED  
TITLE OF INVENTION: SPIDER SILK ANALOGS  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY  
STREET: 1007 MARKET STREET  
CITY: WILMINGTON  
STATE: DELAWARE  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 19898

COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.50 INCH  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: MICROSOFT WINDOWS 95  
SOFTWARE: MICROSOFT WORD FOR WINDOWS 95  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/556.978B  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/077.600  
FILING DATE: JUNE 15, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: FLOYD, LINDA AXAMETHY  
REGISTRATION NUMBER: 33,692  
REFERENCE/DOCKET NUMBER: CR-9399-A  
TELEPHONE: 302-892-8112  
TELEFAX: 302-773-0164  
INFORMATION FOR SEQ ID NO: 59:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 493 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
US-08-556-978B-59

Query Match 1.2%; Score 8; DB 3; Length 493;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43  
DB 421 AAAASAGP 428

RESULT 12  
US-09-247-806-2  
Sequence 2, Application US/09247806  
Patent No. 6260747

## GENERAL INFORMATION:

APPLICANT: PHILLIPPE, Michel  
APPLICANT: GARSON, Jean-Claude  
APPLICANT: ARRAUDEAU, Jean-Pierre  
TITLE OF INVENTION: COSMETIC OR DERMATOLOGICAL COMPOSITION CONTACTING AT  
TITLE OF INVENTION: AT LEAST ONE NATURAL OR RECOMBINANT SPIDER SILK OR AN  
TITLE OF INVENTION: ANALOG  
FILE REFERENCE: 6388-0365-0  
CURRENT APPLICATION NUMBER: US/09/247.806  
CURRENT FILING DATE: 1999-02-11  
EARLIER APPLICATION NUMBER: FR 98/01614  
EARLIER FILING DATE: 1998-02-11  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 2  
LENGTH: 529  
TYPE: PRT  
ORGANISM: Nephila clavipes  
US-09-247-806-2

Query Match 1.2%; Score 8; DB 3; Length 529;  
Best Local Similarity 100.0%; Pred. No. 30;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43  
DB 457 AAAASAGP 464

## RESULT 13

US-08-425-069-4  
Sequence 4, Application US/08425069  
Patent No. 5728810

GENERAL INFORMATION:  
APPLICANT: Lewis, Randolph V.  
APPLICANT: Xu, Ming  
APPLICANT: Hinman, Michael B.  
TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
NUMBER OF SEQUENCES: 69  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: 301 No. 5728810th Washington Street  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22046

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/425.069  
FILING DATE: 19-APR-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1447-106P  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
TELEX:  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 595 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-425-069-4

Query Match 1.2%; Score 8; DB 1; Length 595;  
Best Local Similarity 100.0%; Pred. No. 34;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Y 36 AAASAGP 43  
b 459 AAASAGP 466

RESULT 14  
US-08-317-844B-4  
Sequence 4, Application US/08317844B  
Patent No. 5989894

GENERAL INFORMATION:  
APPLICANT: Lewis, Randolph V.  
APPLICANT: Xu, Ming  
APPLICANT: Himman, Michael E.  
TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
NUMBER OF SEQUENCES: 62  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: 301 No. 5989894th Washington Street  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22046  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/317,844B  
APPLICATION NUMBER: US/08/317,844B  
FILING DATE: 04-OCT-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1447-105P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 241-1300  
TELEFAX: (703) 241-2848  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 595 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-317-844B-4

Query Match 1.2%; Score 8; DB 2; Length 595;  
Best Local Similarity 100.0%; Pred. No. 34;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Y 36 AAASAGP 43  
b 459 AAASAGP 466

RESULT 15  
US-08-930-996A-8  
Sequence 8, Application US/08930996A  
Patent No. 6100449

GENERAL INFORMATION:  
APPLICANT: FLUHER, Robert  
APPLICANT: ESHED, Yuval  
APPLICANT: ORI, Naomi  
APPLICANT: PARAN, Ilan  
APPLICANT: ZAMIR, Daniel  
TITLE OF INVENTION: A GENE FAMILY FROM THE I2 FUSARIUM RESISTANCE

TITLE OF INVENTION: LOCUS OF TOMATO AND USE THEREOF FOR TRANSFORMATION AND  
TITLE OF INVENTION: SELECTIVE BREEDING OF TOMATO AND RELATED PLANTS  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA: US/08/930,996A  
APPLICATION NUMBER: US/08/930,996A  
FILING DATE: 09-DEC-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/05272  
FILING DATE: 15-APR-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: IL 113,373  
FILING DATE: 13-APR-1995  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 920 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-930-996A-8

Query Match 1.2%; Score 8; DB 3; Length 920;  
Best Local Similarity 100.0%; Pred. No. 50;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 196 FNLYKYL 203  
b 602 FNLYKYL 609

## RESULT 16

US-08-666-473-18  
Sequence 18, Application US/08666473  
Patent No. 5843713  
GENERAL INFORMATION:  
APPLICANT: YOSHIDA, Aruto  
APPLICANT: TAKEUCHI, Makoto  
TITLE OF INVENTION: PEPTIDE SEQUENCE THAT FORMS MUCIN SUGAR  
TITLE OF INVENTION: CHAIN AND TECHNIQUE FOR MODIFYING PROTEIN TO BE LINKED  
TITLE OF INVENTION: WITH MUCIN SUGAR CHAIN  
NUMBER OF SEQUENCES: 114  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/666,473  
FILING DATE: 19-SEP-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/JP95/02238  
FILING DATE: 01-NOV-1995  
PRIOR APPLICATION DATA:

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/ APPLICATION NUMBER: JP 7-22101
/ FILING DATE: 09-FEB-1995
/ PRIOR APPLICATION DATA: JP 6-269111
/ FILING DATE: 01-NOV-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: BENT, Stephen A.
/ REGISTRATION NUMBER: 29,768
/ REFERENCE/DOCKET NUMBER: 16887/837
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202)672-5300
/ TELEFAX: (202)672-5399
/ TELEX: 904136
/ INFORMATION FOR SEQ ID NO: 18:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 7 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ US-08-666-473-18

Query Match 1.1%; Score 7; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AATAAP 587
DB 1 AATAAP 7

RESULT 17
PCT-US95-04121-52
/ Sequence 52, Application PC/TUS9504121
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: Haptennated Peptides and Uses Thereof
/ NUMBER OF SEQUENCES: 62
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30 (BPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US95/04121
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/222,206
/ FILING DATE: April 1, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Vanstone, Darlene A.
/ REGISTRATION NUMBER: 35,279
/ REFERENCE/DOCKET NUMBER: 079.2PCT
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 466-6000
/ TELEFAX: (617) 466-6010
/ INFORMATION FOR SEQ ID NO: 52:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 13 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/ PCT-US95-04121-52

Query Match 1.1%; Score 7; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAA 39
DB 1 AATAAAA 7

RESULT 18
US-09-134-001C-4592
/ Sequence 4592, Application US/09134001C
/ Patent No. 6380370
/ GENERAL INFORMATION:
/ APPLICANT: Lynn Doucette-Stamm et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
/ TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: GTC-007
/ CURRENT APPLICATION NUMBER: US/09/134,001C
/ CURRENT FILING DATE: 1998-08-13
/ PRIOR APPLICATION NUMBER: US 60/064,964
/ PRIOR FILING DATE: 1997-11-08
/ PRIOR APPLICATION NUMBER: US 60/055,779
/ PRIOR FILING DATE: 1997-08-14
/ NUMBER OF SEQ ID NOS: 5674
/ SEQ ID NO 4592
/ LENGTH: 69
/ TYPE: PRT
/ ORGANISM: Staphylococcus epidermidis
/ US-09-134-001C-4592

Query Match 1.1%; Score 7; DB 4; Length 69;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 254 VSILERN 260
DB 32 VSILERN 38

RESULT 19
US-09-344-529-2
/ Sequence 2, Application US/09344529
/ Patent No. 6429293
/ GENERAL INFORMATION:
/ APPLICANT: Hew, Choy L.
/ TITLE OF INVENTION: Sculpin-Type Antifreeze Polypeptides and Nucleic Acids
/ FILE REFERENCE: 016252-002620US
/ CURRENT APPLICATION NUMBER: US/09/344,529
/ CURRENT FILING DATE: 1999-06-24
/ EARLIER APPLICATION NUMBER: US 60/090,794
/ EARLIER FILING DATE: 1998-06-26
/ EARLIER APPLICATION NUMBER: US 60/095,713
/ EARLIER FILING DATE: 1998-08-07
/ NUMBER OF SEQ ID NOS: 19
/ SOFTWARE: Patent In Ver. 2.0
/ SEQ ID NO 2
/ LENGTH: 92
/ TYPE: PRT
/ ORGANISM: Myoxocephalus scorpius
/ US-09-344-529-2

Query Match 1.1%; Score 7; DB 4; Length 92;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAA 583
DB 63 AATSAAA 69

RESULT 20
US-09-732-210-1283
/ Sequence 1283, Application US/09732210
/ Patent No. 6573361
/ GENERAL INFORMATION:
/ APPLICANT: Bunkers, Greg J.
/ APPLICANT: Liang, Jihong
/ APPLICANT: Mittanck, Cindy A.
```

```

APPLICANT: Seale, Jeffrey W.
APPLICANT: Wu, Yonnie S.
TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
FILE REFERENCE: 38-21(15036)S
CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: US 60/169,340
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO 1283
LENGTH: 102
TYPE: PRT
ORGANISM: Planobispora rosea
IS-09-732-210-1283

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 102;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 172 SLMRDL 178
2b 86 SLMRDL 92

RESULT 21
US-09-252-991A-18911
; Sequence 18911, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18911
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18911

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 116;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 416 LSDTGVY 422
Db 61 LSDTGVY 67

RESULT 22
US-09-732-210-1518
; Sequence 1518, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1520
; LENGTH: 129

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; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1518
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-732-210-1518

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 129;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 23
US-09-732-210-1519
; Sequence 1519, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1519
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-732-210-1519

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 129;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 24
US-09-732-210-1520
; Sequence 1520, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1520
; LENGTH: 129

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; TYPE: PRT
; ORGANISM: Dictyostelium discoideum
US-09-732-210-1520

Query Match      1.1%  Score 7; DB 4; Length 129;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 25
US-08-726-306A-18
; Sequence 18, Application US/08726306A
; Patent No. 5958684
; GENERAL INFORMATION:
; APPLICANT: van Leeuwen, Frederik Willem
; APPLICANT: Burbach, Johannes Peter Henri
; APPLICANT: Grosveld, Franklin G.
; TITLE OF INVENTION: DIAGNOSIS METHOD AND REAGENTS
; NUMBER OF SEQUENCES: 189
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: 1 Financial Center
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/726.306A
; FILING DATE: 02-Oct-1996
; PRIOR APPLICATION NUMBER: GB 95/20080.4
; APPLICATION NUMBER:
; FILING DATE: 02-Oct-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/009,832
; FILING DATE: 01-Jan-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 96,048-A (3255/00784)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-726-306A-18

Query Match      1.1%  Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 581 AAATAAP 587
Db 72 AAATAAP 78

RESULT 26
US-09-732-210-1517
; Sequence 1517, Application US/09732210
; Patent No. 6573361

```

```

; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Bonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1517
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Agaricus bisporus
US-09-732-210-1517

Query Match      1.1%  Score 7; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 3 RISVLND 9

RESULT 27
US-09-674-741-4
; Sequence 4, Application US/09674741
; Patent No. 6548280
; GENERAL INFORMATION:
; APPLICANT: E. I. du Pont de Nemours and Company
; TITLE OF INVENTION: Genes Encoding Sulfate Assimilation Proteins
; FILE REFERENCE: BB-1167-E
; CURRENT APPLICATION NUMBER: US/09/674,741
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/092,833
; PRIOR FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Zea mays
US-09-674-741-4

Query Match      1.1%  Score 7; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 390 TVLSHAS 396
Db 72 TVLSHAS 78

RESULT 28
US-09-252-991A-18029
; Sequence 18029, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

```



PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 18029  
LENGTH: 148  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-18029

Query Match 1.1%; Score 7; DB 4; Length 148;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 576 PAATSA 582  
b 115 PAATSA 121

RESULT 29

S-09-252-991A-21836  
Sequence 21836, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
PRIOR FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 21836  
LENGTH: 153  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa

S-09-252-991A-21836

Query Match 1.1%; Score 7; DB 4; Length 153;  
Best Local Similarity 100.0%; Pred. No. 91;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAG 42  
b 91 AAAASAG 97

RESULT 30

S-09-191-647-8  
Sequence 8, Application US/09191647  
Patent No. 6046015  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Kid, Thomas  
APPLICANT: Brose, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCE: 598-031-3  
CURRENT APPLICATION NUMBER: US/09/191,647  
CURRENT FILING DATE: 1998-11-13  
EARLIER APPLICATION NUMBER: 60/065,544  
EARLIER FILING DATE: 1997-11-14  
EARLIER APPLICATION NUMBER: 60/081,057  
EARLIER FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 155  
TYPE: PRT  
ORGANISM: Caenorhabditis elegans

S-09-191-647-8

Query Match 1.1%; Score 7; DB 3; Length 155;

Query Match 1.1%; Score 7; DB 3; Length 155;  
Best Local Similarity 100.0%; Pred. No. 92;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 146 LSKREL 152  
b 145 LSKREL 151

RESULT 31

US-09-540-245A-8  
Sequence 8, Application US/09540245A  
Patent No. 6270984  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Kid, Thomas  
APPLICANT: Brose, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCE: 598-031-3  
CURRENT APPLICATION NUMBER: US/09/540,245A  
CURRENT FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 60/065,544  
PRIOR FILING DATE: 1997-11-14  
PRIOR APPLICATION NUMBER: 60/081,057  
PRIOR FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 155  
TYPE: PRT  
ORGANISM: Caenorhabditis elegans  
NAME/KEY: misc feature  
LOCATION: (4)\_(152)  
OTHER INFORMATION: note="Xaa signifies gap in sequence"  
US-09-540-245A-8

Query Match 1.1%; Score 7; DB 3; Length 155;  
Best Local Similarity 100.0%; Pred. No. 92;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 146 LSKREL 152  
b 145 LSKREL 151

RESULT 32

US-09-540-153-8  
Sequence 8, Application US/09540153  
Patent No. 6270995  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Kid, Thomas  
APPLICANT: Brose, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCE: 598-031-3  
CURRENT APPLICATION NUMBER: US/09/540,153  
CURRENT FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 09/191,647  
PRIOR FILING DATE: 1998-11-13  
PRIOR APPLICATION NUMBER: 60/081,057  
PRIOR FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 155  
TYPE: PRT  
ORGANISM: Caenorhabditis elegans  
US-09-540-153-8

Query Match 1.1%; Score 7; DB 3; Length 155;

Best Local Similarity 100.0%; Pred. No. 92;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 146 LSKUREL 152  
Db 145 LSKUREL 151

RESULT 33  
US-09-252-991A-29851  
; Sequence 29851, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 29851  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-29851

Query Match 1.1%; Score 7; DB 4; Length 175;  
Best Local Similarity 100.0%; Pred. No. 1e-02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SARATAA 586  
Db 2 SARATAA 8

RESULT 34  
US-08-986-485-8  
; Sequence 8, Application US/08986485  
; Patent No. 6046030  
; GENERAL INFORMATION:  
; APPLICANT: WU, SHUIAN  
; APPLICANT: SWEET, RAYMOND  
; TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: RATNER & PRESTIA  
; STREET: P.O. BOX 980  
; CITY: VALLEY FORGE  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/986,485  
; FILING DATE: 08-DEC-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/059,448  
; FILING DATE: 22-SEP-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PRESTIA, PAUL F  
; REGISTRATION NUMBER: 23,031  
; REFERENCE/DOCKET NUMBER: GH-70264  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-407-0700  
TELEFAX: 610-407-0701  
TELEX: 846169  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 180 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-986-485-8

Query Match 1.1%; Score 7; DB 3; Length 180;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 138 IPGSAFE 144  
Db 70 IPGSAFE 76

RESULT 35  
US-09-252-991A-31669  
; Sequence 31669, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 31669  
; LENGTH: 182  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31669

Query Match 1.1%; Score 7; DB 4; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 AATAAPS 588  
Db 97 AATAAPS 103

RESULT 36  
US-09-252-991A-17837  
; Sequence 17837, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17837  
; LENGTH: 204  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17837

Query Match 1.1%; Score 7; DB 4; Length 204;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 578 ATSAAT 584  
129 ATSAAT 135

RESULT 37  
S-09-252-991A-17234  
Sequence 17234, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 17234  
LENGTH: 205  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
S-09-252-991A-17234

Query Match 1.1%; Score 7; DB 4; Length 205;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 577 AATSAAT 583  
133 AATSAAT 139

RESULT 38  
S-08-456-670B-39  
Sequence 39, Application US/08456670B  
Patent No. 5932415  
GENERAL INFORMATION:  
APPLICANT: SCHUBERT, PETER  
APPLICANT: NEUMANN, SIEGFRIED  
APPLICANT: PAWELZIK, MARTINA  
APPLICANT: LINKEWILLER, WINFRIED  
APPLICANT: BURGER, CHRISTA  
APPLICANT: HOFMANN, GOTTFRIED  
APPLICANT: BUBERT, ANDREAS  
APPLICANT: GOEBEL, WERNER  
APPLICANT: KOHLER, STEFAN  
TITLE OF INVENTION: PROCESSES AND AGENTS FOR DETECTING  
TITLE OF INVENTION: LISTERIAS  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MILLEN, WHITE, ZELANO & BRANIGAN, P.C.  
STREET: 2200 CLARENDON BLVD., SUITE 1400  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: US  
ZIP: 22201  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/456,670B  
FILING DATE: 01-JUN-1995

CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/412,227  
FILING DATE: 27-MAR-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/075,248  
FILING DATE: 11-JUN-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: DE 4239567.4  
FILING DATE: 25-NOV-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: DE 4219111.4  
FILING DATE: 11-JUN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: HAMLET-KING, DIANA  
REGISTRATION NUMBER: 33,302  
REFERENCE/DOCKET NUMBER: MERCK 1694D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-243-6333  
TELEFAX: 703-243-6410  
TELEX: 64191  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 232 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
ORIGINAL SOURCE:  
ORGANISM: Listeria monocytogenes  
STRAIN: EGD  
US-08-456-670B-39

Query Match 1.1%; Score 7; DB 2; Length 232;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 457 VTIVETTE 463  
DB 43 VTIVETTE 49

RESULT 39  
US-08-286-888B-1  
Sequence 1, Application US/08286888B  
Patent No. 5627024  
GENERAL INFORMATION:  
APPLICANT: MATUYAMA, Ichiro  
APPLICANT: MATUYAMA, Hiroko  
APPLICANT: BRENNER, Sydney  
TITLE OF INVENTION: LAMBDOID BACTERIOPHAGE VECTORS FOR  
TITLE OF INVENTION: EXPRESSION OF FOREIGN PROTEINS  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: The Scripps Research Institute, Office of  
ADDRESSEE: Patent Counsel  
STREET: 10666 No. 5627024th Torrey Pines Road, TPCB  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA  
ZIP: 92037  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/286,888B  
FILING DATE: 05-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Fitting, Thomas  
REGISTRATION NUMBER: 34,163  
REFERENCE/DOCKET NUMBER: TSRI 432.0

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-554-2937  
TELEFAX: 619-554-6312  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-286-888B-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 40  
US-08-294-386C-1  
Sequence 1, Application US/08294386C  
Patent No. 5646030  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.  
APPLICANT: Lin, Edmund C.C.  
APPLICANT: Crea, Roberto  
TITLE OF INVENTION: Method Of Isolating Mutant Cells  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lappin & Kusmer  
STREET: 200 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/294,386C  
FILING DATE: August 23, 1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Kerner, Ann-Louise  
REGISTRATION NUMBER: 33,523  
REFERENCE/DOCKET NUMBER: SYZZ-010CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/330-1300  
TELEFAX: 617/330-1311  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-294-386C-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 41  
US-08-294-386C-3  
Sequence 3, Application US/08294386C  
Patent No. 5646030  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.  
APPLICANT: Lin, Edmund C.C.  
APPLICANT: Crea, Roberto  
TITLE OF INVENTION: Method Of Isolating Mutant Cells  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lappin & Kusmer  
STREET: 200 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/294,386C  
FILING DATE: August 23, 1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Kerner, Ann-Louise  
REGISTRATION NUMBER: 33,523  
REFERENCE/DOCKET NUMBER: SYZZ-010CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/330-1300  
TELEFAX: 617/330-1311  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-294-386C-3

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 42  
US-08-299-249A-1  
Sequence 1, Application US/08299249A  
Patent No. 5650267  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.; and  
APPLICANT: Lin, Edmund C.C.  
TITLE OF INVENTION: Method Of Detecting Compounds  
TITLE OF INVENTION: Utilizing Genetically Modified  
TITLE OF INVENTION: Lambdaoid Bacteriophage  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HALE and DORR  
STREET: 60 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109  
COMPUTER READABLE FORM:

us-09-989-279-229.oli6.ra1

Fri Feb 6 10:51:24 2004

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/299,249A  
 FILING DATE: 31-AUG-1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/053,865  
 FILING DATE: 27-APR-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kerner, Ann-Louise  
 REGISTRATION NUMBER: 33,523  
 REFERENCE/DOCKET NUMBER: SYZ-011FWC  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/526-6000  
 TELEFAX: 617/526-5000  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 246 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 HYPOTHETICAL: YES  
 US-08-299-249A-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

RESULT 43  
 US-08-299-249A-10  
 Sequence 10, Application US/08299249A  
 Patent No. 5650267  
 GENERAL INFORMATION:  
 APPLICANT: RAY, Bryan L.; and  
 APPLICANT: LIN, Edmund C.C.  
 TITLE OF INVENTION: Method Of Detecting Compounds  
 TITLE OF INVENTION: Utilizing Genetically Modified  
 TITLE OF INVENTION: Lambdaoid Bacteriophage  
 NUMBER OF SEQUENCES: 15  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: HALE and DORR  
 STREET: 60 State Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: U.S.A.  
 ZIP: 02109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/299,249A  
 FILING DATE: 31-AUG-1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/053,865  
 FILING DATE: 27-APR-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kerner, Ann-Louise  
 REGISTRATION NUMBER: 33,523  
 REFERENCE/DOCKET NUMBER: SYZ-011FWC

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/526-6000  
 TELEFAX: 617/526-5000  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 246 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 US-08-299-249A-10

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

RESULT 44  
 US-08-590-708-1  
 Sequence 1, Application US/08590708  
 Patent No. 5663069  
 GENERAL INFORMATION:  
 APPLICANT: RAY, Bryan L.  
 APPLICANT: LIN, Edmund C.C.  
 TITLE OF INVENTION: Method Of Detecting  
 TITLE OF INVENTION: Compounds Utilizing  
 TITLE OF INVENTION: Chemically Modified  
 TITLE OF INVENTION: Lambdaoid Bacteriophage  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Allegretti & Witcoff, Ltd.  
 STREET: 75 State Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: U.S.A.  
 ZIP: 02109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/590,708  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/053,866A  
 FILING DATE: 19930427  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kerner, Ann-Louise  
 REGISTRATION NUMBER: 33,523  
 REFERENCE/DOCKET NUMBER: 93,075  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/345-9100  
 TELEFAX: 617/345-9111  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 246 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 HYPOTHETICAL: YES  
 ANTI-SENSE: NO  
 US-08-590-708-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 45

PCT-US94-06543-1

; Sequence 1, Application PC/TUS9406543  
; GENERAL INFORMATION:  
; APPLICANT: Ray, Bryan L.  
; APPLICANT: Lin, Edmund C.C.  
; TITLE OF INVENTION: Method of Detecting Compounds  
; TITLE OF INVENTION: Utilizing  
; TITLE OF INVENTION: Genetically Modified Lambdaoid  
; TITLE OF INVENTION: Bacteriophage  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lappin & Kusmer  
; STREET: 200 State Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: U.S.A.  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/06543  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kerner, Ann-Louise  
; REGISTRATION NUMBER: 33,523  
; REFERENCE/DOCKET NUMBER: SYZZ-011PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/330-1300  
; TELEFAX: 617/330-1311  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 246 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: YES  
; ANTI-SENSE: NO  
; PCT-US94-06543-1

Query Match 1.1%; Score 7; DB 5; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 46

PCT-US95-10224-1

; Sequence 1, Application PC/TUS9510224  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF  
; APPLICANT: HARVARD COLLEGE  
; TITLE OF INVENTION: Method of Isolating Mutant Cells  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lappin & Kusmer  
; STREET: 200 State Street  
; CITY: Boston

; STATE: MA  
; COUNTRY: U.S.A.  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10224  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/294,386  
; FILING DATE: August 23, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kerner, Ann-Louise  
; REGISTRATION NUMBER: 33,523  
; REFERENCE/DOCKET NUMBER: SYZZ-010CIP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/330-1300  
; TELEFAX: 617/330-1311  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 246 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; PCT-US95-10224-1

Query Match 1.1%; Score 7; DB 5; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 47

PCT-US95-10224-3  
; Sequence 3, Application PC/TUS9510224  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF  
; APPLICANT: HARVARD COLLEGE  
; TITLE OF INVENTION: Method of Isolating Mutant Cells  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lappin & Kusmer  
; STREET: 200 State Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: U.S.A.  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10224  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/294,386  
; FILING DATE: August 23, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kerner, Ann-Louise  
; REGISTRATION NUMBER: 33,523  
; REFERENCE/DOCKET NUMBER: SYZZ-010CIP

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/330-1300

TELEFAX: 617/330-1311

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 246 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

CT-US95-10224-3

Query Match 1.1%; Score 7; DB 5; Length 246;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 557 RSTVTAA 563

b 155 RSTVTAA 161

## RESULT 48

US-09-252-991A-23672

Sequence 23672, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 23672

LENGTH: 247

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

S-09-252-991A-23672

Query Match 1.1%; Score 7; DB 4; Length 247;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 581 AAATAAP 587

b 185 AAATAAP 191

## RESULT 49

S-08-630-915A-8

Sequence 8, Application US/08630915A

Patent No. 6309820

GENERAL INFORMATION:

APPLICANT: SPARKS, Andrew B.

APPLICANT: HOFFMAN, No. 6309820h

APPLICANT: KAY, Brian K.

APPLICANT: FOWLES, Dana M.

APPLICANT: MCCONNELL, Stephen J.

TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL

TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND

TITLE OF INVENTION: USING SAME

NUMBER OF SEQUENCES: 227

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie &amp; Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/630,915A

FILING DATE: 03-APR-1996

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Mistock, S. Leslie

REGISTRATION NUMBER: 18,872

REFERENCE/DOCKET NUMBER: 1101-174

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-8864/9741

TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 251 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-630-915A-8

## Query Match

Best Local Similarity 1.1%; Score 7; DB 4; Length 251;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAG 42

Db 8 AAAASAG 14

## RESULT 50

US-09-252-991A-23261

Sequence 23261, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 23261

LENGTH: 266

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23261

## Query Match

Best Local Similarity 1.1%; Score 7; DB 4; Length 266;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 577 AATSAAA 583

Db 19 AATSAAA 25

Search completed: February 5, 2004, 16:07:15

Job time : 24 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

WM protein - protein search, using sw model

run on: February 5, 2004, 16:06:13 ; Search time 38 Seconds  
(without alignments)

3598.069 Million cell updates/sec

Title: US-09-989-279-229

Perfect score: 653

Sequence: 1 MKLILQVTVHHTWNAILLP.....ISSPYIIQTHKDKVOETQI 653

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 801455 seqs, 209362283 residues

Word size : 6

Total number of hits satisfying chosen parameters: 12807

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

Published Applications AA:\*  
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2: /cgn2\_6/ptodata/2/pubpaa/PCF\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*  
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7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*  
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14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*  
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16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep:\*  
17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	653	100.0	653	9	US-09-989-722-229
2	653	100.0	653	9	US-09-989-723-229
3	653	100.0	653	9	US-09-989-279-229
4	653	100.0	653	9	US-09-989-727-229
5	653	100.0	653	10	US-09-989-731-229
6	653	100.0	653	10	US-09-989-732-229
7	653	100.0	653	10	US-09-989-732-229
8	653	100.0	653	10	US-09-989-732-229
9	653	100.0	653	10	US-09-989-732-229
10	653	100.0	653	10	US-09-989-732-229
11	653	100.0	653	10	US-09-989-732-229
12	653	100.0	653	10	US-09-989-732-229
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15	653	100.0	653	10	US-09-989-732-229

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653	100.0	653	10	US-09-991-181-229	Sequence 229, App
653	100.0	653	10	US-09-989-730-229	Sequence 229, App
653	100.0	653	10	US-09-990-436-229	Sequence 229, App
653	100.0	653	10	US-09-993-687-229	Sequence 229, App
653	100.0	653	11	US-09-989-734-229	Sequence 229, App
653	100.0	653	11	US-09-997-653-229	Sequence 229, App
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653	100.0	653	11	US-09-997-514-229	Sequence 229, App
653	100.0	653	11	US-09-997-573-229	Sequence 229, App
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653	100.0	653	11	US-09-990-443-229	Sequence 229, App
653	100.0	653	11	US-09-991-854-229	Sequence 229, App
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653	100.0	653	11	US-09-997-683-229	Sequence 229, App
653	100.0	653	11	US-09-989-729A-229	Sequence 229, App
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653	100.0	653	11	US-09-997-542-229	Sequence 229, App
653	100.0	653	11	US-09-993-748-229	Sequence 229, App
653	100.0	653	11	US-09-990-439-229	Sequence 229, App
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653	100.0	653	11	US-09-993-583-229	Sequence 229, App
653	100.0	653	11	US-09-941-992-229	Sequence 229, App
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653	100.0	653	12	US-09-989-725-229	Sequence 229, App
653	100.0	653	12	US-09-997-529-229	Sequence 229, App
653	100.0	653	12	US-10-137-870-438	Sequence 438, App
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653	100.0	653	12	US-10-142-421-438	Sequence 438, App
653	100.0	653	12	US-10-142-432-438	Sequence 438, App
653	100.0	653	12	US-10-142-767-438	Sequence 438, App
653	100.0	653	12	US-10-143-033-438	Sequence 438, App
653	100.0	653	12	US-10-144-994-438	Sequence 438, App
653	100.0	653	12	US-10-145-628-438	Sequence 438, App
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## ALIGNMENTS

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; Sequence 229, Application US/09989722  
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; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
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; APPLICANT: Gerber, Hanspeter  
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; APPLICANT: Napier, Mary A.  
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; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
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; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Scrutted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C63  
; CURRENT APPLICATION NUMBER: US/09/989,722  
; CURRENT FILING DATE: 2001-11-19  
; PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

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Best Local Similarity 100.0%; Pred. No. 0;

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Db	61	CTTRGLSEVPQGPISNTRYLNLMENNIQMIQADTPRHLLHLEVLQGRNSIRQIEVGAFN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLMLRNNPIESIPSYAFNRVPSLMLDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLMLRNNPIESIPSYAFNRVPSLMLDLGE	180
Qy	181	LKXLEYISEGAFEGFLPNLKYLNLMGNKMDNNTPLVGLBELEMSGNHPFEIRPGSPHG	240
Db	181	LKXLEYISEGAFEGFLPNLKYLNLMGNKMDNNTPLVGLBELEMSGNHPFEIRPGSPHG	240
Qy	241	L4SLAKCWTWMSOVSLIERNADFGLASLVEINLANNISLPHDLFTPLRYLVELHLHN	300

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; Patent No. US20020072092A1

GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
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; APPLICANT: Napier, Mary A.  
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; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tuma, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC62  
; CURRENT APPLICATION NUMBER: US/09/989,723  
; CURRENT FILING DATE: 2001-11-19  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
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; PRIOR FILING DATE: 1998-02-25

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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02

; PRIOR APPLICATION NUMBER: 60/091626  
; PRIOR FILING DATE: 1998-07-02  
; PRIOR APPLICATION NUMBER: 60/091633  
; PRIOR FILING DATE: 1998-07-02  
; PRIOR APPLICATION NUMBER: 60/091978  
; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 60/091982  
; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 60/092182  
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLLMOVTVHHHTWAILLPFVYLTQVWILCAALAAASAGPQPCPSVCSNFSKV 60  
Db 1 MLLMOVTVHHHTWAILLPFVYLTQVWILCAALAAASAGPQPCPSVCSNFSKV 60  
Qy 61 CTARGLSEVPOGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQGRNSROIIEVGF 120  
Db 61 CTARGLSEVPOGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQGRNSROIIEVGF 120  
Qy 121 GLASLNTIELFONMLTVIPSGAFYLSKLRELNRNPIESIPSAFNRVPSLMRLDGE 180  
Db 121 GLASLNTIELFONMLTVIPSGAFYLSKLRELNRNPIESIPSAFNRVPSLMRLDGE 180  
Qy 181 LKLEYISGAFEGFLNKLNLGMCNIXKXPNLTPLVGLELEVMGNHPPPIRPGSPHG 240  
Db 181 LKLEYISGAFEGFLNKLNLGMCNIXKXPNLTPLVGLELEVMGNHPPPIRPGSPHG 240  
Qy 241 LSSLKLLWNSQVSLIERNAFQGLASIVELNLAHNISLPHDLFTPLRYLVELHLHN 300  
Db 241 LSSLKLLWNSQVSLIERNAFQGLASIVELNLAHNISLPHDLFTPLRYLVELHLHN 300  
Qy 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPMHMERGYLVEVDQASFOCSAPFIMDAPR 360  
Db 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPMHMERGYLVEVDQASFOCSAPFIMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRIISVINDGTLNPSHLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRIISVINDGTLNPSHLLSDTG 420  
Qy 421 VYTCMTNVAGNSNAYLNVSIAELNLSNYFFFTVTVVETTEISPEDTRKYKVPPTS 480  
Db 421 VYTCMTNVAGNSNAYLNVSIAELNLSNYFFFTVTVVETTEISPEDTRKYKVPPTS 480  
Qy 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDKMQTSLDVAKTKKIIIGCFVAVTLA 540  
Db 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDKMQTSLDVAKTKKIIIGCFVAVTLA 540  
Qy 541 AAMLIVPYKLKXHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIVPYKLKXHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
Qy 601 IHDHINYNTYKPAHGAHWIENSLSLHPTVTIISSEPIYIIQTHTKDKVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWIENSLSLHPTVTIISSEPIYIIQTHTKDKVQETQI 653

RESULT 3

US-09-989-279-229  
; Sequence 229, Application US/09989279  
; Patent No. US20020072496A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC56  
CURRENT APPLICATION NUMBER: US/09/989,279  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
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PRIOR APPLICATION NUMBER: 60/090472

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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MKLLQVTVVHHTWNAILLPEVYLTAQWILCAALIAAASAGPQNCPSVCSCSNQFSKV 60  
61 CTRRGLSEVPQGISNTRYLNLMENNTQMTQADTFRLHLEVLQGRNSIRQIEVGAFN 120  
61 CTRRGLSEVPQGISNTRYLNLMENNTQMTQADTFRLHLEVLQGRNSIRQIEVGAFN 120  
121 GLASLNTLELFDNWLTVIPSGAPEVLSKLELWLRNNPIESIPSYAFNRVPSLMLRLDICE 180  
121 GLASLNTLELFDNWLTVIPSGAPEVLSKLELWLRNNPIESIPSYAFNRVPSLMLRLDICE 180  
181 LKLEYISEGAFEGFLNFKYLNAGCNKIMPNLTPVLVLEBLEMGNNHPPETRPGSFEG 240  
181 LKLEYISEGAFEGFLNFKYLNAGCNKIMPNLTPVLVLEBLEMGNNHPPETRPGSFEG 240  
241 LSSKLKLWNNQSVSLTERNAFGLASIVRLNLAHNNLSLPHDLFTPLRYLVLELHLEN 300  
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301 PWNCCDLILAWMLREYIPNNSCCGRCHAPMHRGRYLVVEVDAQSFQCSAPPINDAPR 360  
301 PWNCCDLILAWMLREYIPNNSCCGRCHAPMHRGRYLVVEVDAQSFQCSAPPINDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARPRISVLNDGTINFSHVLLSDTG 420

Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARPRISVLNDGTINFSHVLLSDTG 420  
Qy 421 VYTCMVTVNAGNSNAYSALNVSTAEINTSNYSFFTVTVVETTEISPEDTTRKYKVPPTS 480  
Db 421 VYTCMVTVNAGNSNAYSALNVSTAEINTSNYSFFTVTVVETTEISPEDTTRKYKVPPTS 480  
Qy 481 TGYQPAYTTSTTVLIQOTTRVPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSTTVLIQOTTRVPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLIYFYKLRKHQORSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLFT 600  
Db 541 AAMLIYFYKLRKHQORSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLFT 600  
Qy 601 IHDHINYNTKPAHGAHWNTENSLGNSLHPTVTITISPYIIQTHTKDKVQBTQI 653  
Db 601 IHDHINYNTKPAHGAHWNTENSLGNSLHPTVTITISPYIIQTHTKDKVQBTQI 653

RESULT 4  
US-09-989-727-229  
Sequence 229, Application US/09989727  
Patent No. US20020072497A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C65  
CURRENT APPLICATION NUMBER: US/09/989,727  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
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PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
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PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106

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3	PRIOR APPLICATION NUMBER: 60/087607	4	PRIOR FILING DATE: 1998-06-18
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19	PRIOR APPLICATION NUMBER: 60/088021	20	PRIOR FILING DATE: 1998-06-19
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51	PRIOR APPLICATION NUMBER: 60/088167	52	PRIOR FILING DATE: 1998-06-24
53	PRIOR FILING DATE: 1998-06-05	54	PRIOR APPLICATION NUMBER: 60/090435
55	PRIOR APPLICATION NUMBER: 60/088202	56	PRIOR FILING DATE: 1998-06-24
57	PRIOR FILING DATE: 1998-06-05	58	PRIOR APPLICATION NUMBER: 60/090444
59	PRIOR APPLICATION NUMBER: 60/088212	60	PRIOR FILING DATE: 1998-06-24
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65	PRIOR FILING DATE: 1998-06-05	66	PRIOR APPLICATION NUMBER: 60/090472
67	PRIOR APPLICATION NUMBER: 60/088655	68	PRIOR FILING DATE: 1998-06-24
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75	PRIOR APPLICATION NUMBER: 60/088738	76	PRIOR FILING DATE: 1998-06-24
77	PRIOR FILING DATE: 1998-06-10	78	PRIOR APPLICATION NUMBER: 60/090542
79	PRIOR APPLICATION NUMBER: 60/088742	80	PRIOR FILING DATE: 1998-06-24
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83	PRIOR APPLICATION NUMBER: 60/088810	84	PRIOR FILING DATE: 1998-06-24
85	PRIOR FILING DATE: 1998-06-10	86	PRIOR APPLICATION NUMBER: 60/090676
87	PRIOR APPLICATION NUMBER: 60/088824	88	PRIOR FILING DATE: 1998-06-25
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91	PRIOR APPLICATION NUMBER: 60/088826	92	PRIOR FILING DATE: 1998-06-25
93	PRIOR FILING DATE: 1998-06-10	94	PRIOR APPLICATION NUMBER: 60/090690
95	PRIOR APPLICATION NUMBER: 60/088858	96	PRIOR FILING DATE: 1998-06-25
97	PRIOR FILING DATE: 1998-06-11	98	PRIOR APPLICATION NUMBER: 60/090694
99	PRIOR APPLICATION NUMBER: 60/088861	100	PRIOR FILING DATE: 1998-06-25
101	PRIOR FILING DATE: 1998-06-11	102	PRIOR APPLICATION NUMBER: 60/090696
103	PRIOR APPLICATION NUMBER: 60/088876	104	PRIOR FILING DATE: 1998-06-25
105	PRIOR FILING DATE: 1998-06-11	106	PRIOR APPLICATION NUMBER: 60/090862
107	PRIOR APPLICATION NUMBER: 60/089105	108	PRIOR FILING DATE: 1998-06-26
109	PRIOR FILING DATE: 1998-06-12	110	PRIOR APPLICATION NUMBER: 60/090863
111	PRIOR APPLICATION NUMBER: 60/089440	112	PRIOR FILING DATE: 1998-06-26
113	PRIOR FILING DATE: 1998-06-16	114	PRIOR APPLICATION NUMBER: 60/091360
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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121 G L A S N T L E L F D N W I T V I P S G A F E Y L S K R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
121 G L A S N T L E L F D N W I T V I P S G A F E Y L S K R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180

181 L K K L Y I S E G A P E G L F N K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240  
181 L K K L Y I S E G A P E G L F N K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240

241 L S L K L W M N S Q V S L I E R N A F D G L A S V E L N L A H N L S L P H D L T P L Y L V E L H L H N 300  
241 L S L K L W M N S Q V S L I E R N A F D G L A S V E L N L A H N L S L P H D L T P L Y L V E L H L H N 300

301 P W N C D C I L M A W L R E V I P T N S C C G R C H A P M R G R Y I V E V D Q A S F Q C S A P P I N D A P R 360  
301 P W N C D C I L M A W L R E V I P T N S C C G R C H A P M R G R Y I V E V D Q A S F Q C S A P P I N D A P R 360

361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P I S V L N D G T L N F S H V L L S D T G 420  
361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P I S V L N D G T L N F S H V L L S D T G 420

421 V T T C M T V N A G N S A S A V I N S T A E L N T S N S F P T T V T T T I S P E D I T T R K Y K P V P T T S 480  
421 V T T C M T V N A G N S A S A V I N S T A E L N T S N S F P T T V T T T I S P E D I T T R K Y K P V P T T S 480

481 T G Y Q P A Y T T S T V L Q T T R V P K V A V P A T D T D R N Q T S L D E V M K T K L I I G C F V A V T I L A 540  
481 T G Y Q P A Y T T S T V L Q T T R V P K V A V P A T D T D R N Q T S L D E V M K T K L I I G C F V A V T I L A 540

541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L E P T 600  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L E P T 600

601 I H D H I N Y N T Y P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T Q I 653  
601 I H D H I N Y N T Y P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T Q I 653

## RESULT 5

IS-09-989-731-229  
Sequence 229, Application US/09989731

Patent No. US20020103125A1  
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.

APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C70  
CURRENT APPLICATION NUMBER: US/09/989,731  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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 / PRIOR FILING DATE: 1998-07-07  
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 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M K L L W Q V T V H H T W N A I L L P F V Y L T A Q W I L C A I A A A S A G P Q N C P S V C S C S N Q S K V 60  
 Dd 1 M K L L W Q V T V H H T W N A I L L P F V Y L T A Q W I L C A I A A A S A G P Q N C P S V C S C S N Q S K V 60

QY 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M T Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Dd 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M T Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120

QY 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N P I E S I P S Y A F N V P S I M R L D L G E 180  
 Dd 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N P I E S I P S Y A F N V P S I M R L D L G E 180

QY 181 L K K L E Y I S E G A F E G L F N L K Y L N I G M C N I K D M P N L T P L V G L E L E M S G N H P P I R P G S P H G 240  
 Dd 181 L K K L E Y I S E G A F E G L F N L K Y L N I G M C N I K D M P N L T P L V G L E L E M S G N H P P I R P G S P H G 240

QY 241 L S S I K L W N N S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H L F T P L Y L V E L H L H N 300  
 Dd 241 L S S I K L W N N S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H L F T P L Y L V E L H L H N 300

QY 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
 Dd 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360

QY 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V I L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 Dd 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V I L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

QY 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V E T T E I S P E D T T R K Y K P V P T S 480  
 Dd 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V E T T E I S P E D T T R K Y K P V P T S 480

481 TGQPAYTSTTVLIQTRVPKQVAVPATDTTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
b TGQPAYTSTTVLIQTRVPKQVAVPATDTTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
481 TGQPAYTSTTVLIQTRVPKQVAVPATDTTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
b TGQPAYTSTTVLIQTRVPKQVAVPATDTTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDPATSAATAAPSGVSGEGAVLPT 600  
b AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDPATSAATAAPSGVSGEGAVLPT 600  
541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDPATSAATAAPSGVSGEGAVLPT 600  
b AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDPATSAATAAPSGVSGEGAVLPT 600  
601 IHQHINNTYKPAHGAHWNTSNGSLHPTVTTTISEPYIIQHTHKDKVQETQI 653  
b IHQHINNTYKPAHGAHWNTSNGSLHPTVTTTISEPYIIQHTHKDKVQETQI 653

## RESULT 6

S-09-989-732-229

Sequence 229, Application US/09989732

Patent No. US20020123463A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
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APPLICANT: Deanoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C57  
CURRENT APPLICATION NUMBER: US/09/989,732  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
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PRIOR FILING DATE: 1998-06-03  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLWQVTVHHTWNAILLPPVYLTAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
DB 1 MKLLWQVTVHHTWNAILLPPVYLTAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
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DB 61 CTRRGLSEVPQGISNTRYLNMENNIOIQAOTFRHLHLEVLQLGNSIRQIEVGA 120  
QY 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRELWLNPNPIESIPSYAFNRVPSL 180  
DB 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRELWLNPNPIESIPSYAFNRVPSL 180  
QY 181 LKLEYISEGAPEGLFNLKYINLQWNIKMPNLPLVGLLEELMSGNHPEIRP 240  
DB 181 LKLEYISEGAPEGLFNLKYINLQWNIKMPNLPLVGLLEELMSGNHPEIRP 240  
QY 241 LSSLLKLVWNSQVSLTERNAFQGLASLVELNLAHNLSLPHDLFTPLRYL 300  
DB 241 LSSLLKLVWNSQVSLTERNAFQGLASLVELNLAHNLSLPHDLFTPLRYL 300  
QY 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAP 360  
DB 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAP 360  
QY 361 DINISEGMAELKCRTPMSSVKWLLPNGTULSHASHHPRISVLNDGTLNPS 420  
DB 361 DINISEGMAELKCRTPMSSVKWLLPNGTULSHASHHPRISVLNDGTLNPS 420  
QY 421 VYTCWTVNAGNSASAYLNVSTAEALNTSNYSFPTTVTVEITISPEDTR 480  
DB 421 VYTCWTVNAGNSASAYLNVSTAEALNTSNYSFPTTVTVEITISPEDTR 480  
QY 481 TGYQPAVTTSTVLIQTRVPKQVADPTTDMQOTSLDEVMKTKIILGCFV 540  
DB 481 TGYQPAVTTSTVLIQTRVPKQVADPTTDMQOTSLDEVMKTKIILGCFV 540  
QY 541 AAMLIVFYKLRKHQRSTVTARTVEIIQVDEIDPAATSAATAAPSGVSGE 600  
DB 541 AAMLIVFYKLRKHQRSTVTARTVEIIQVDEIDPAATSAATAAPSGVSGE 600  
QY 601 IHDHINNTYKPAHGAHWNTENSLNSLHPTVTVEISEPIIQTHTKKVQ 653  
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RESULT 7  
US-09-991-073-229  
; Sequence 229, Application US/09991073  
; Patent No. US2002012756A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gertsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.  
APPLICANT: Zhang, Gemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS Encoding the Same  
FILE REFERENCE: P2730P1C15  
CURRENT APPLICATION NUMBER: US/09/991,073  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
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7 PRIOR APPLICATION NUMBER: 60/091978  
7 PRIOR FILING DATE: 1998-07-07  
7 PRIOR APPLICATION NUMBER: 60/091982  
7 PRIOR FILING DATE: 1998-07-07  
7 PRIOR APPLICATION NUMBER: 60/092182  
7 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLLMVOYVTHHTWAILLPFYVLTAAQWILCAATARAASAGPQPCVCSCKNQFSKV 60  
DB 1 MLLMVOYVTHHTWAILLPFYVLTAAQWILCAATARAASAGPQPCVCSCKNQFSKV 60

QY 61 CTRRGLSEVPGIPSNTRYLNLMENNIMQIADTFRHLHLEVLQLGNSIRQIEVGAEN 120  
DB 61 CTRRGLSEVPGIPSNTRYLNLMENNIMQIADTFRHLHLEVLQLGNSIRQIEVGAEN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRELWLNENNIESIPSYAFNRVPSLMDLGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRELWLNENNIESIPSYAFNRVPSLMDLGE 180

QY 181 LKXLEYISGAFEGULFNLYNLGNKCNKIDMKNLPLVGLSELEMSGNHFEIIPGSPFHG 240  
DB 181 LKXLEYISGAFEGULFNLYNLGNKCNKIDMKNLPLVGLSELEMSGNHFEIIPGSPFHG 240

QY 241 LSSLKKLWVNSQVSLIERNAFDGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
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QY 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHVGRYLVEDQASFOCSAPFIMDAPR 360  
DB 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHVGRYLVEDQASFOCSAPFIMDAPR 360

QY 361 DLNISEGRMAELKCRTPPMSSVKMLPNCTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSSVKMLPNCTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420

QY 421 VYTCMVNTVAGNSASAYLNVSATLNTSNYSFFTVTTEIISPEDTTRKYKVPVPTS 480  
DB 421 VYTCMVNTVAGNSASAYLNVSATLNTSNYSFFTVTTEIISPEDTTRKYKVPVPTS 480

QY 481 TGYQPAYTSTTVLIQTTVRPQVAPATDDTKMQTSLDEVMKTKLIIICFVAVTLLA 540  
DB 481 TGYQPAYTSTTVLIQTTVRPQVAPATDDTKMQTSLDEVMKTKLIIICFVAVTLLA 540

QY 541 AAMLIVYKLRKHQORSTVTARTVEIIQVDEDIPAAATSAATAAPSGVSGEAVLPT 600  
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DB 601 IHDHINYNTYKPAHGAHWTENSLNSLHPTVTTTISEPYIIQTHTKDKVQETQI 653

## RESULT 8

US-09-990-442-223  
Sequence 229, Application US/09990442  
Patent No. US20020132252A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deshoyers, Luc  
APPLICANT: Raton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS Encoding the Same  
FILE REFERENCE: P2730PICB  
CURRENT APPLICATION NUMBER: US/09/990,442  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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Query Match 100.0%; Score 653; DB 10; Length 653;  
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Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 Db 301 PNWCDDILNLAWMLREVIPTNSICCGRCHAPMWRGRLVVEVDQASFQCSAPFINDAPR 360  
 Qy 361 DUNISEGRMAELKCHTPPMSSVKALLPNGTFLSHASRHRISVLDGTLNPSHVLSDTG 420  
 Db 361 DUNISEGRMAELKCHTPPMSSVKALLPNGTFLSHASRHRISVLDGTLNPSHVLSDTG 420  
 Qy 421 VTCMTNIVAGNSASAYLNSTAEINTSNYSFETTVTTEISPEDTTRKXKPVPTTS 480  
 Db 421 VTCMTNIVAGNSASAYLNSTAEINTSNYSFETTVTTEISPEDTTRKXKPVPTTS 480  
 Qy 481 TGYQPAYTSTTVLITQTRVPKQVAVPATDTTDMQKQSLDEVMKTKIILGCFVAVTLLA 540  
 Db 481 TGYQPAYTSTTVLITQTRVPKQVAVPATDTTDMQKQSLDEVMKTKIILGCFVAVTLLA 540  
 Qy 541 AAMLVEYKLRKHQRHQRSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLPT 600  
 Db 541 AAMLVEYKLRKHQRHQRSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLPT 600  
 Qy 601 IHDHINYNTPKPAHGAHTENSGLNSLHPTVTITSEPVIIIOHTYKQKQVETQI 653  
 Db 601 IHDHINYNTPKPAHGAHTENSGLNSLHPTVTITSEPVIIIOHTYKQKQVETQI 653

RESULT 9

US-09-991-163-229  
 ; Sequence 229, Application US/09991163  
 ; Patent No. US20020132253A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C17  
 CURRENT APPLICATION NUMBER: US/09/991,163  
 CURRENT FILING DATE: 2001-11-14

APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C17  
 CURRENT APPLICATION NUMBER: US/09/991,163  
 CURRENT FILING DATE: 2001-11-14

PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
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PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MCLJQVTVHHTWNAILLPFVYLTAQVWILCAALAAASAGPQNCPSVCSQFQSVV 60  
Qy 61 CTRGLSEVPOQIPSTRYLNLMENNIQMIQADTFRHLHLHLVQLGRNSIRQIEVGAFN 120  
Db 61 CTRGLSEVPOQIPSTRYLNLMENNIQMIQADTFRHLHLHLVQLGRNSIRQIEVGAFN 120  
Qy 121 GLASLNTLELFDNHLTVTPSGAFYLSKLRLELNNPIESIPSYAENRVPSLARLDLGE 180  
Db 121 GLASLNTLELFDNHLTVTPSGAFYLSKLRLELNNPIESIPSYAENRVPSLARLDLGE 180  
Qy 181 LKKLEYISGAFEGFLNKLKYLNLGWCNKKDMENLTPVAGLELELESGNHHFPIRPGSPHG 240  
Db 181 LKKLEYISGAFEGFLNKLKYLNLGWCNKKDMENLTPVAGLELELESGNHHFPIRPGSPHG 240  
Qy 241 LSSLKCLWPMNSQVSLIERNAPDGLASLVEILAHNNLSSLPDLFTPLRLYLVELHLHN 300  
Db 241 LSSLKCLWPMNSQVSLIERNAPDGLASLVEILAHNNLSSLPDLFTPLRLYLVELHLHN 300  
Qy 301 PNCCDILMLAWLREVIPTNSTCCGRCHAPMHRGRLVEVDQASQCSAPFIMDAPR 360  
Db 301 PNCCDILMLAWLREVIPTNSTCCGRCHAPMHRGRLVEVDQASQCSAPFIMDAPR 360  
Qy 361 DLNISEGRMAELKCTPPMSSVYKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
Db 361 DLNISEGRMAELKCTPPMSSVYKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
Qy 421 VYTCMVTVAGNSASAYLVNSTALNTSNYSFPTVTVEITETISPEDTTKXKVPVPTS 480  
Db 421 VYTCMVTVAGNSASAYLVNSTALNTSNYSFPTVTVEITETISPEDTTKXKVPVPTS 480  
Qy 481 TGYQPAYTTSITVLITQTRVPKQVAPATDTTDMQTSLSDEWMTTKIIICGFAVATLLA 540  
Db 481 TGYQPAYTTSITVLITQTRVPKQVAPATDTTDMQTSLSDEWMTTKIIICGFAVATLLA 540  
Qy 541 AAMLVFTKLRKHQRSTVTAARTVEIIOVDEIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLVFTKLRKHQRSTVTAARTVEIIOVDEIPAAATSAATAAPSGVSGEAVLPT 600  
Qy 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISEPYIIQTHTKDKVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISEPYIIQTHTKDKVQETQI 653

RESULT 10



IS-09-993-604-229

Sequence 229, Application US/09993604  
Patent No. US20020137075A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavits, Ivar J.  
APPLICANT: Kaprielian, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCE: P2730P1C25

CURRENT APPLICATION NUMBER: US/09/993,604

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

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PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

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PRIOR FILING DATE: 1998-05-07

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PRIOR FILING DATE: 1998-05-28

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PRIOR APPLICATION NUMBER: 60/090349

PRIOR FILING DATE: 1998-06-23

PRIOR APPLICATION NUMBER: 60/090355

PRIOR FILING DATE: 1998-06-23

Prior Filing Date: 1998-06-23  
Prior Application Number: 60/090429  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090431  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090433  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090444  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090445  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090472  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090535  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090540  
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Prior Application Number: 60/090557  
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Prior Application Number: 60/090676  
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Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090690  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090694  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090695  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090696  
Prior Filing Date: 1998-06-25  
Prior Application Number: 60/090862  
Prior Filing Date: 1998-06-26  
Prior Application Number: 60/090863  
Prior Filing Date: 1998-06-26  
Prior Application Number: 60/091360  
Prior Filing Date: 1998-07-01  
Prior Application Number: 60/091478  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091544  
Prior Filing Date: 1998-07-01  
Prior Application Number: 60/091519  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091626  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 MKLLQVTVVHHTWNAILLFFVLTQAQWILCAIAAASAGPQPCSVCSGNSQFSKV 60  
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61 CTRGLSEVPQIPSNRYNLNENNIQICADTPRHLLHLEVLQGRNSIRQIEVGAFN 120  
61 CTRGLSEVPQIPSNRYNLNENNIQICADTPRHLLHLEVLQGRNSIRQIEVGAFN 120  
121 GLASLNTLEFDNNWLTIPSGAFEYLSKRELWLRNNDPESIPSYAFNRVPSLMLDLGE 180  
121 GLASLNTLEFDNNWLTIPSGAFEYLSKRELWLRNNDPESIPSYAFNRVPSLMLDLGE 180  
181 LKLEVISSEGAEGFLFNLKYLNLGMCNLIKMPNLTPLVGLSELEMSGNHFFPIRGSFHG 240

181 LKLEVISSEGAEGFLFNLKYLNLGMCNLIKMPNLTPLVGLSELEMSGNHFFPIRGSFHG 240  
241 LSSLKXKLVWNSQVSLIERNADGLASIVELNLAHNNLSSLPDLFTPLRYLVBLHLHN 300  
241 LSSLKXKLVWNSQVSLIERNADGLASIVELNLAHNNLSSLPDLFTPLRYLVBLHLHN 300  
301 PWCDCDILWLAWLREYIPNTSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360  
301 PWCDCDILWLAWLREYIPNTSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVYKLLPMTGVLSHASRPRIISVLDGTLNFSHLLSDTG 420  
361 DLNISEGRMAELKCRTPPMSSVYKLLPMTGVLSHASRPRIISVLDGTLNFSHLLSDTG 420  
421 VYTCMVNTVAGNSNASAYLNVSTAEIANTSNYSFFTTVTVEITEISPEDTTRKYKVPVPTS 480  
421 VYTCMVNTVAGNSNASAYLNVSTAEIANTSNYSFFTTVTVEITEISPEDTTRKYKVPVPTS 480  
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541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDIIPAATSAATAAAPSQSGEGAVVLEPT 600  
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RESULT 11

US-09-990-456-229  
Sequence 229, Application US/09990456  
Patent No. US20020137890A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tuma, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C22  
CURRENT APPLICATION NUMBER: US/09/990,456  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311



PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
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1 MLLMQVTHHTWNAILLPFVYLAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
 1 MLLMQVTHHTWNAILLPFVYLAQVWILCAIAAASAGPQNCPSVCSNQSFKV 60  
 61 CTRGLSEVPOGIPENTRYLNMENNIOMIQADTFRLHLEVLQGRNSIRQIEVGAFN 120  
 61 CTRGLSEVPOGIPENTRYLNMENNIOMIQADTFRLHLEVLQGRNSIRQIEVGAFN 120  
 121 GLASLNTLEFDNWLTVIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLRLDGE 180  
 121 GLASLNTLEFDNWLTVIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLRLDGE 180  
 181 LKLEYISEGAFEGFLNLYLNLGMCNKDMPNLPVLGLESEMSGNHPEIRPGSFHG 240  
 181 LKLEYISEGAFEGFLNLYLNLGMCNKDMPNLPVLGLESEMSGNHPEIRPGSFHG 240  
 241 LSSLKXWMSQVSLIBRNAPDGLASLVEINLAHNNLSLPHDLPTPLRYLVELHLHN 300  
 241 LSSLKXWMSQVSLIBRNAPDGLASLVEINLAHNNLSLPHDLPTPLRYLVELHLHN 300  
 301 PNCDCDILALAWLREVIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFMDAPR 360  
 301 PNCDCDILALAWLREVIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFMDAPR 360  
 361 DUNISEGRMAELKCTTPMSSVQWLLPNTGTVLSHARHPRIISVINDGTLPFSVILLSDTG 420  
 361 DUNISEGRMAELKCTTPMSSVQWLLPNTGTVLSHARHPRIISVINDGTLPFSVILLSDTG 420  
 421 VYTCMVTVAGNSASAYLVNSTAEINTSNYSFPTTVVETTEISPDTRTKYKPVPTTS 480  
 421 VYTCMVTVAGNSASAYLVNSTAEINTSNYSFPTTVVETTEISPDTRTKYKPVPTTS 480  
 481 TCQPAYTSTTVLIQTTRVPKQVAVPATDTPDKVQTSLEDMVTKTIIIGCFVAVTLLA 540  
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 601 IHDHINYNTYKPAHGAHTENSGLNSLHPTVTITISEPVIIOHTKDKVQETQI 653  
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RESULT 12

3-09-989-721-229

Sequence 229, Application US/09989721

Patent No. US20020142961A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
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 APPLICANT: Grimaldi, J. Christopher  
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 APPLICANT: Tamas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC55  
 CURRENT APPLICATION NUMBER: US/09/989,721  
 PRIOR FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049787  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
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 QY 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 D b 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 QY 121 G L A S L N T L E L F D N N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S V A F N R V P S L M L D I G E 180  
 D b 121 G L A S L N T L E L F D N N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S V A F N R V P S L M L D I G E 180  
 QY 181 L K L E Y I S S G A F E G L F N L K Y L N I L G M C N I K M P N L T P L V G L E L E M S G N H F P I R F G S F H G 240  
 D b 181 L K L E Y I S S G A F E G L F N L K Y L N I L G M C N I K M P N L T P L V G L E L E M S G N H F P I R F G S F H G 240  
 QY 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V L E L H L H N 300  
 D b 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V L E L H L H N 300

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b 301 PNCDCDILWAWLREYIPTNSCCGRCHAPMHRGRVYLVNDQASQCSAPFFMDAPR 360  
Y 361 DUNISGRMAELKCRTPKSSVKWLLPNGITVLSHRSRHRISVLNDGTLNFSHVLLSDTG 420  
b 361 DUNISGRMAELKCRTPKSSVKWLLPNGITVLSHRSRHRISVLNDGTLNFSHVLLSDTG 420  
Y 421 VTCMTVNVAGNSNAGAYLVNSTAEINTSNYSFFTTVTVTVEITEISPEDTTRKYKVPVPTS 480  
b 421 VTCMTVNVAGNSNAGAYLVNSTAEINTSNYSFFTTVTVTVEITEISPEDTTRKYKVPVPTS 480  
Y 481 TGSOPAYTSTVLLIOCTVVPKQVAVPATDITDKMWTSLDDEVKMTTKLIIIGCFVAVTLLA 540  
b 481 TGSOPAYTSTVLLIOCTVVPKQVAVPATDITDKMWTSLDDEVKMTTKLIIIGCFVAVTLLA 540  
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RESULT 13  
S-09-992-598-229  
Sequence 229, Application US/09992598  
Patent No. US20020160384A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin E.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC20  
CURRENT APPLICATION NUMBER: US/09/992,598  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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DB 61 CTRGLSEVPGIPSNTRYLNWENNIOADTFRLHLEVLQGRNSTRLQEVCAEN 120

QY 121 GLASINTLELFDNWLTVIPSGAFYLSKRLRLWLNPNIPESIPYAFNRVPSLRLDLGE 180  
DB 121 GLASINTLELFDNWLTVIPSGAFYLSKRLRLWLNPNIPESIPYAFNRVPSLRLDLGE 180

QY 181 LKKLEVISGAPGLFKYLNKLGWNLKMPNLTPLVGLLEELWMSGNHPEIRPGSPFG 240  
DB 181 LKKLEVISGAPGLFKYLNKLGWNLKMPNLTPLVGLLEELWMSGNHPEIRPGSPFG 240

QY 241 LSLKKLWYMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSLKKLWYMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300

QY 301 PWCDCDILWLAWLREYIPTNSTCCGCHAPMRCRYLVEVDQASFOCSAFIMDAPR 360  
DB 301 PWCDCDILWLAWLREYIPTNSTCCGCHAPMRCRYLVEVDQASFOCSAFIMDAPR 360

QY 361 DLNISEGRMAELKCKTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCKTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420

QY 421 VTCWTVNAGNSNASAYLNSTAEANTSNYSPTTVVTTTETISPEDTTKRYKVPFTTS 480  
DB 421 VTCWTVNAGNSNASAYLNSTAEANTSNYSPTTVVTTTETISPEDTTKRYKVPFTTS 480

QY 481 TGYQPAYTTTTLVLIQTRVPEKQVAVPATDTTDMQTSLEDMVMTTKIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTTTLVLIQTRVPEKQVAVPATDTTDMQTSLEDMVMTTKIIGCFVAVTLLA 540

QY 541 AAMLIVFYKLKRRHQCRSTVTAARTVLIQVDEDIIPAATSAATAAPSGVSGGAVVLP 600  
DB 541 AAMLIVFYKLKRRHQCRSTVTAARTVLIQVDEDIIPAATSAATAAPSGVSGGAVVLP 600

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DB 601 IHDHINYNTYKPAHGAHWNTENSLGSLHFTVTITISEPYIIQTHTKQVQETQI 653

RESULT 14  
US-09-989-293A-229  
; Sequence 229, Application US/09989293A  
; Patent No. US20020177164A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey



APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS  
FILE REFERENCE: P2730PIC66  
CURRENT APPLICATION NUMBER: US/09/989,293A  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
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 ? PRIOR APPLICATION NUMBER: 60/092182  
 ? PRIOR FILING DATE: 1998-07-09

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 ; Sequence 229, Application US/09989735  
 ; Publication No. US20020193299A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
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 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C61  
 ; CURRENT APPLICATION NUMBER: US/09/989,735  
 ; CURRENT FILING DATE: 2001-11-19  
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Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. Mo. 0;  
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## RESULT 16

US-09-990-444-229  
Sequence 229, Application US/09990444  
Publication No. US20020193300A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC19  
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 PRIOR FILING DATE: 1998-07-07  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Freq. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	1	MKLLMQVTVHHHTWAILLPFVYLTQAQWILCAALIAAASAGPQPCPSVCSNQSFKV	60
Qy	61	CTRGLESEVPGQIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQIQRNSIROIEVGFN	120
Db	61	CTRGLESEVPGQIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQIQRNSIROIEVGFN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLRLWLNPNPIESIPSYAFNRVPSLMRLDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLRLWLNPNPIESIPSYAFNRVPSLMRLDLGE	180
Qy	181	LKXLEYISEGAPEGLFNKLYNLGMCNIKOMPNLTPLVGLBLELEMSGNHPPPIRPGSFHG	240
Db	181	LKXLEYISEGAPEGLFNKLYNLGMCNIKOMPNLTPLVGLBLELEMSGNHPPPIRPGSFHG	240
Qy	241	LSSLKGLWNNQSVSLIERNADGLASVELANLNHNNLSLPHDLFTPLRYLVELHLHN	300
Db	241	LSSLKGLWNNQSVSLIERNADGLASVELANLNHNNLSLPHDLFTPLRYLVELHLHN	300
Qy	301	FWNCDDCILLWLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPPIMDAPR	360
Db	301	FWNCDDCILLWLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPPIMDAPR	360
Qy	361	DLNISEGRVAELKCRTPPMSSVKWLLPAGTVLSHARHPRISVLNDGTLNPSHLLSDTG	420
Db	361	DLNISEGRVAELKCRTPPMSSVKWLLPAGTVLSHARHPRISVLNDGTLNPSHLLSDTG	420
Qy	421	VYTCWNTVAGNSNAYLNVTABLNTSNVGFPTTVTVEITETSPEDTTRKYKVPPTTS	480
Db	421	VYTCWNTVAGNSNAYLNVTABLNTSNVGFPTTVTVEITETSPEDTTRKYKVPPTTS	480
Qy	481	TGYQPAYTTSTTVLIQTTRVPKQVAPATDTTDDKQCTSLDDEWMTKIIIGCFVAVTLLA	540
Db	481	TGYQPAYTTSTTVLIQTTRVPKQVAPATDTTDDKQCTSLDDEWMTKIIIGCFVAVTLLA	540

481 TGYQPAVTTSTVLIIQTRVFKQVAVPATDTTDMQTSLSDEWKTIIIGCFVAVTLLA 540  
 541 AAMLVYFKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAPSGVSGEGAVLPT 600  
 541 AAMLVYFKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAPSGVSGEGAVLPT 600  
 601 IHDHINTYKPAHGAHWTEHNSLHPTVTTTISEYIIQHTKDKVQETQI 653  
 601 IHDHINTYKPAHGAHWTEHNSLHPTVTTTISEYIIQHTKDKVQETQI 653

RESULT 17

US-09-989-279-229  
 Sequence 229, Application US/09991181  
 Publication No. US20020197615A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PICS3  
 CURRENT APPLICATION NUMBER: US/09/991,181  
 CURRENT FILING DATE: 2001-11-16  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
 PRIOR FILING DATE: 1997-10-17  
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 PRIOR APPLICATION NUMBER: 60/065311  
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Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.08; Score 653; DB 10; Length 653;  
Best Local Similarity 100.08; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 MXLEQVTVHHTWNAILLPFVYLTQWILCAAIAAASAGPQNCPSVCSCNQFSKV 60

Db 1 MKLLQVTVHHTWNAILLPFVYLTQWILCAAIAAASAGPQNCPSVCSCNQFSKV 60  
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Db 61 CTRRGLSEVPOGIPSNTRYLNLMMNNIQMIQADTFRIHLHLLEVQLGRNSIRQIEVGAFN 120  
Qy 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRELWLNPNPIESIPSYAFNRVPSLRLDGE 180  
Db 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRELWLNPNPIESIPSYAFNRVPSLRLDGE 180  
Qy 181 LKLEYISGAFEGFLNKLNLGNKCNIKDMPNITPLVGLBELEMSGNHPPFIRPGSFHG 240  
Db 181 LKLEYISGAFEGFLNKLNLGNKCNIKDMPNITPLVGLBELEMSGNHPPFIRPGSFHG 240  
Qy 241 LSSLKLMVMSQVSLIERNAPDGLASLVEINLHNNLSSLPDHLFTPLRLYLVELHLHN 300  
Db 241 LSSLKLMVMSQVSLIERNAPDGLASLVEINLHNNLSSLPDHLFTPLRLYLVELHLHN 300  
Qy 301 PNWCDDILWLAWLRBYIPTNSTCCGRCHAPMWRGRYLVEVDQASFOCSAPFIMDAPR 360  
Db 301 PNWCDDILWLAWLRBYIPTNSTCCGRCHAPMWRGRYLVEVDQASFOCSAPFIMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRISVLNDGTLPNFSVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRISVLNDGTLPNFSVLLSDTG 420  
Qy 421 VYTCWTVNAGNSNASAYLNSTAEINTSNYSFPTTVTVEITEISPEDTKKYPVPTTS 480  
Db 421 VYTCWTVNAGNSNASAYLNSTAEINTSNYSFPTTVTVEITEISPEDTKKYPVPTTS 480  
Qy 481 TCYQPAYTTSTFVLIIQTRVPKQVAVPATDTTDDQVTSLEDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TCYQPAYTTSTFVLIIQTRVPKQVAVPATDTTDDQVTSLEDEVMKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPTAASAAATAPSGVSGEAVLPT 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPTAASAAATAPSGVSGEAVLPT 600  
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Db 601 IHDHINYNTYKPAHGAHWTENSGLNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 18  
US-09-989-730-229  
; Sequence 229, Application US/09989730  
; Publication No. US20020197674A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Katanabe, Colin X.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730P1C69

CURRENT FILING DATE: 2001-11-20

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PRIOR FILING DATE: 2001-11-20

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PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
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PRIOR APPLICATION NUMBER: 60/091626  
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PRIOR APPLICATION NUMBER: 60/091633  
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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MGLWQVTHHTNAILLPVYLTQVWTLCAIAAASAGPQSPVCSGNSQFVKV 60  
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61 CTRGLSEVPQIPSNTRYLNKNNILQIADTFRLHLEVLQLGNSRQIEVGAFN 120  
61 CTRGLSEVPQIPSNTRYLNKNNILQIADTFRLHLEVLQLGNSRQIEVGAFN 120  
121 GLASLNTLELFDNWLTPGAGFEYLSKRELWLRNNPIESTPSYAFNRVPSLAPLDLGE 180  
121 GLASLNTLELFDNWLTPGAGFEYLSKRELWLRNNPIESTPSYAFNRVPSLAPLDLGE 180  
181 LKLEYISEGAFGLFWLKYLNLCMKNIKDMPNLTPLVGLSELEMSGNHFFPIRPGSPHG 240  
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241 LSSLLKLVWVNSQVSLIERNAFDGLASLVELMAHNNLSLPHDLFTPLRYLVELHLHN 300  
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301 PWCDCDILWAWLREYIPTNSTCCGRCHAPWMEGRVLYVEVDOASFOCGAPFTMDAPR 360  
301 PWCDCDILWAWLREYIPTNSTCCGRCHAPWMEGRVLYVEVDOASFOCGAPFTMDAPR 360  
361 DLNISSEGMALCKRTPPMSSVKKLLPNGTVLSHARRHPRISVLNDGTINFSHLLSDTG 420  
361 DLNISSEGMALCKRTPPMSSVKKLLPNGTVLSHARRHPRISVLNDGTINFSHLLSDTG 420  
421 VYTCWNTVWAGNSAAYLNVSABELNTNYSFFTVTVETTEISPEDTTKRYKVPVPTS 480  
421 VYTCWNTVWAGNSAAYLNVSABELNTNYSFFTVTVETTEISPEDTTKRYKVPVPTS 480  
481 TGQOPAVTTSTVLLIQTRVPKQAVPAATDTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
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541 AAMLIYFKLKRKHQRSTVTAARTVEIQLQVEDIPAAATSAATAAPSGVSGEAVLPT 600  
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601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITSEPYIIQHTKDKVQETQI 653

Db 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITSEPYIIQHTKDKVQETQI 653

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; Sequence 229, Application US/09990436  
; Publication No. US20020198148A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashtkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Pong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Katanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C14  
; CURRENT APPLICATION NUMBER: US/09/990,436  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
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 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
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 Qy 61 CTRRGLSEVPGQIPSNTRYLNLMMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVGAFN 120  
 Db 61 CTRRGLSEVPGQIPSNTRYLNLMMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVGAFN 120

121 GLASLNTLEIFDNLWLTVPISGAFEYLSKRLWLRNNPIESIPSAFNRVPSLMELDLGE 180  
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181 LKLEYSISEGAFGLFNKYLNLGMCNIKOMPNIITPLVGLSELEMSGNHFPPIRPGSFHG 240  
181 LKLEYSISEGAFGLFNKYLNLGMCNIKOMPNIITPLVGLSELEMSGNHFPPIRPGSFHG 240  
241 LSSIKLWNNVSOVSUERIAPDGLASLVELNLAHNNLSLSDHDLFTPLRYLVELHLHHN 300  
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601 IHDHINYNTKPAHGAHWNTENSLSLHPTVTITSPYIIQTHTKDKVQSTOI 653  
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RESULT 20  
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Sequence 229, Application US/09993687  
Publication No. US20020198149A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gottlieb, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C11  
CURRENT APPLICATION NUMBER: US/09/993,687  
CURRENT FILING DATE: 2002-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKLLMQVTVHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSCNQPSKVV 60
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DB 61 CTRRGLSEVPQGIIPSNTRYLNMENNIOQADTFRLHLEVLQLCRNSIROIEVCAFN 120
QY 121 GLASLNTLLEFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSAENRVPSLRMLDLGE 180
DB 121 GLASLNTLLEFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSAENRVPSLRMLDLGE 180
QY 181 LKLEYISEGAFEGFLPNKYNLCMCNIKDMPNLTPLVGLBEELEMSGNHPPFIRPGSFHG 240
DB 181 LKLEYISEGAFEGFLPNKYNLCMCNIKDMPNLTPLVGLBEELEMSGNHPPFIRPGSFHG 240
QY 241 LSSLKLLWVMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLYVELHLHNN 300
DB 241 LSSLKLLWVMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLYVELHLHNN 300
QY 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFINDAPR 360
DB 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFINDAPR 360
QY 361 DNISEGMAELKCRTPMSSVKWLLPENGTVLSHASHPRISVINDGTNLNFSVLLSDTG 420
DB 361 DNISEGMAELKCRTPMSSVKWLLPENGTVLSHASHPRISVINDGTNLNFSVLLSDTG 420
QY 421 VYTCWTVNAGNSNASAYLNVSTAEALNTSNYSFPTTVVETTEISPEDTTRKYKPVPTTS 480
DB 421 VYTCWTVNAGNSNASAYLNVSTAEALNTSNYSFPTTVVETTEISPEDTTRKYKPVPTTS 480
QY 481 TGYQPAVTTSTTVLIQTRVPKQVAPATDTTKMOTSLDEVMKTKIIGCFVAVTLLA 540
DB 481 TGYQPAVTTSTTVLIQTRVPKQVAPATDTTKMOTSLDEVMKTKIIGCFVAVTLLA 540
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAATAAPSQVSGEGAVVLP 600
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAATAAPSQVSGEGAVVLP 600
QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKKQVETQI 653
DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKKQVETQI 653

RESULT 21
US-09-989-734-229
; Sequence 229, Application US/09989734

Publication No. US20030003531A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730F1C64

CURRENT APPLICATION NUMBER: US/09/989, 734

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

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PRIOR APPLICATION NUMBER: 60/088028

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PRIOR APPLICATION NUMBER: 60/088039

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PRIOR FILING DATE: 1998-06-04

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PRIOR APPLICATION NUMBER: 60/090429

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1 PRIOR FILING DATE: 1998-06-24
2 PRIOR APPLICATION NUMBER: 60/090431
3 PRIOR FILING DATE: 1998-06-24
4 PRIOR APPLICATION NUMBER: 60/090435
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6 PRIOR APPLICATION NUMBER: 60/090444
7 PRIOR FILING DATE: 1998-06-24
8 PRIOR APPLICATION NUMBER: 60/090445
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28 PRIOR APPLICATION NUMBER: 60/090822
29 PRIOR FILING DATE: 1998-06-26
30 PRIOR APPLICATION NUMBER: 60/090863
31 PRIOR FILING DATE: 1998-06-26
32 PRIOR APPLICATION NUMBER: 60/091360
33 PRIOR FILING DATE: 1998-07-01
34 PRIOR APPLICATION NUMBER: 60/091478
35 PRIOR FILING DATE: 1998-07-02
36 PRIOR APPLICATION NUMBER: 60/091544
37 PRIOR FILING DATE: 1998-07-01
38 PRIOR APPLICATION NUMBER: 60/091519
39 PRIOR FILING DATE: 1998-07-02
40 PRIOR APPLICATION NUMBER: 60/091626
41 PRIOR FILING DATE: 1998-07-02
42 PRIOR APPLICATION NUMBER: 60/091633
43 PRIOR FILING DATE: 1998-07-02
44 PRIOR APPLICATION NUMBER: 60/091978
45 PRIOR FILING DATE: 1998-07-07
46 PRIOR APPLICATION NUMBER: 60/091982
47 PRIOR FILING DATE: 1998-07-07
48 PRIOR APPLICATION NUMBER: 60/092182
49 PRIOR FILING DATE: 1998-07-09

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Query Match	100.0%	Score 653;	DB 11;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 653;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MKLLMQVTVHHHTWNAILLPPVYLTAQVWILCAAIAAASAGPQNCPSVCSNQSFKVV	60	
Db	1	MKLLMQVTVHHHTWNAILLPPVYLTAQVWILCAAIAAASAGPQNCPSVCSNQSFKVV	60	
Qy	61	CTTRGLSVPOQIPSNTRYLNLNENNIQMTQDTRFHLHLEVLQJGRNSIRQIIEVGAFN	120	
Db	61	CTTRGLSVPOQIPSNTRYLNLNENNIQMTQDTRFHLHLEVLQJGRNSIRQIIEVGAFN	120	
Qy	121	GLASLNTLLELDNMLTVIPSGAPEYLSKLRELWRNPPIESIPSYAFNRVPSLRJLDLGE	180	
Db	121	GLASLNTLLELDNMLTVIPSGAPEYLSKLRELWRNPPIESIPSYAFNRVPSLRJLDLGE	180	
Qy	181	LKKLEYISGEGAFGLFNLKYLNLGMCNLIKMPMLTPIVGLLEEMSGNHPPIRPSFHG	240	
Db	181	LKKLEYISGEGAFGLFNLKYLNLGMCNLIKMPMLTPIVGLLEEMSGNHPPIRPSFHG	240	

241	QY	LSSLKKLWVMNSQVSLIERNAPFGLASVLINLAHNLSLPHDLFTPLRYLVELLHFN	300
241	DB	LSSLKKLWVMNSQVSLIERNAPFGLASVLINLAHNLSLPHDLFTPLRYLVELLHFN	300
301	QY	PNMCCDILATLAWLREVIPNNSCCGRCHAPMHRGRYLVEVDQASFOCSAPPINDAPR	360
301	DB	PNMCCDILATLAWLREVIPNNSCCGRCHAPMHRGRYLVEVDQASFOCSAPPINDAPR	360
361	QY	DLNISSEGEMAEIKCRTPTPMSSVKVLLPNGTVLSHRSRHPRIISVLNDGTLNFSHLLSDTG	420
361	DB	DLNISSEGEMAEIKCRTPTPMSSVKVLLPNGTVLSHRSRHPRIISVLNDGTLNFSHLLSDTG	420
421	QY	VYTCMVTVNVAGNSNASAYLVNSTAEILNSYSPFTTVTVETTEISPEDTRXKVPPTTS	480
421	DB	VYTCMVTVNVAGNSNASAYLVNSTAEILNSYSPFTTVTVETTEISPEDTRXKVPPTTS	480
481	QY	TYQPAYTTSYTVLIQTRUPKQYAVPATOTDKMOTSLSDEVKMTTKLIIGCFVAVTLIA	540
481	DB	TYQPAYTTSYTVLIQTRUPKQYAVPATOTDKMOTSLSDEVKMTTKLIIGCFVAVTLIA	540
541	QY	AAMLIVFYFLKRRKHQRKSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEP	600
541	DB	AAMLIVFYFLKRRKHQRKSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEP	600
601	QY	IFDHINYNTRYPAHGAHWENSLGNSLHPTVTTISBPYIIOTHTKQKQVETQI	653
601	DB	IFDHINYNTRYPAHGAHWENSLGNSLHPTVTTISBPYIIOTHTKQKQVETQI	653

RESULT 22  
US-09-997-653-229  
Sequence 229, Application US/09997653  
Publication No. US2003008297A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-15  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770

PRIOR APPLICATION NUMBER:	60/089353
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089598
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089599
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089600
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PRIOR APPLICATION NUMBER:	60/089653
PRIOR FILING DATE:	1998-06-17
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PRIOR FILING DATE:	1998-06-18
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PRIOR APPLICATION NUMBER:	60/089908
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PRIOR FILING DATE:	1998-06-22
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PRIOR APPLICATION NUMBER:	60/090863
PRIOR FILING DATE:	1998-06-26
PRIOR APPLICATION NUMBER:	60/091360
PRIOR FILING DATE:	1998-07-01
PRIOR APPLICATION NUMBER:	60/091478
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091544

[illegible]

RESULT 23  
US-09-993-667-229  
; Sequence 229, Application US/0993667  
; Publication No. US2003022187A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088033  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088326  
; PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLQVTVHHTWNAILLPVYLTQVWILCAATAAASAGPQPCVSCSNQFSKV 60  
Db 1 MKLLQVTVHHTWNAILLPVYLTQVWILCAATAAASAGPQPCVSCSNQFSKV 60  
Qy 61 CTRGSLSEVPOGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQGRNSTQIEVGAPN 120  
Db 61 CTRGSLSEVPOGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQGRNSTQIEVGAPN 120  
Qy 121 GLASLNTLLEFDNWLTVIPSGAFEYLSKRLRELWLNPNIESIPSYAFNRVPSLMLDLGE 180  
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Qy 181 LKLYIYSSGAFEGFLNLYLNLCNITKDMNLTPLVGLBELEMSGNHFFPIRGSFHG 240  
Db 181 LKLYIYSSGAFEGFLNLYLNLCNITKDMNLTPLVGLBELEMSGNHFFPIRGSFHG 240  
Qy 241 LSLKLCIWPANSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
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Qy 301 PNCCDILWLAWLIREYIPTNSTCCGCHAPMNGRYLVEVDQASQCSAPFTMDAPR 360  
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Db 301 PWNCDILWLAWLREVIPNTNSTCCGRCHAPMGRGYLVEVDQASQAPSAPIMDAPR 360  
QY 361 DLNISEGRMAELKCTPPMSSVKMLLPNGTFLSHASRPRISVLNDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCTPPMSSVKMLLPNGTFLSHASRPRISVLNDGTLNFSHVLLSDTG 420  
QY 421 VTCMVTVNAGNSNASAYLNSTAEINTSNYSFFTTVTETETISPEBTTTKYKPVPTTS 480  
Db 421 VTCMVTVNAGNSNASAYLNSTAEINTSNYSFFTTVTETETISPEBTTTKYKPVPTTS 480  
QY 481 TGYQPAYTSTTVLQTRVPKQAVPATDTTDKNQSLDEVMKTKLIIIGCFVAVTLLA 540  
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QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLP 600  
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QY 601 IHDHINYNTYKPAHGAHWTENSGLNSLHPTVTITISEPVIITHTKDKVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWTENSGLNSLHPTVTITISEPVIITHTKDKVQETQI 653

## RESULT 24

US-09-997-428-229  
; Sequence 229: Application US/99997428  
; Publication No. US20030027162A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
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; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
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; APPLICANT: Paoni, Nicholas F.  
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; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC44  
; CURRENT APPLICATION NUMBER: US/09/997,428  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
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; PRIOR APPLICATION NUMBER: 60/091978  
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; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 60/091982  
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; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 60/092182  
;  
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKLLQVTVHHTWNAILLPPVYLTAQVWILCAIAAASAGPQNCPSVCSCNQSKVV 60

QY 61 CTRRGLSEVPQIPSNTRYLNAMENNIQIADTFRHLHLEVLQGRNSIRQIEGAFN 120  
DB 61 CTRRGLSEVPQIPSNTRYLNAMENNIQIADTFRHLHLEVLQGRNSIRQIEGAFN 120

QY 121 GLASINTLELFDNWLTVIPSGAFEYLSKURELWRNPNPESIPSYAFNRVPSLRLDLGE 180  
DB 121 GLASINTLELFDNWLTVIPSGAFEYLSKURELWRNPNPESIPSYAFNRVPSLRLDLGE 180

QY 181 LKLEYISEGAFGLFNLKYLNLGMQNIKMPNLTPVLGLELEMSGNHPPFIRPGSFHG 240  
DB 181 LKLEYISEGAFGLFNLKYLNLGMQNIKMPNLTPVLGLELEMSGNHPPFIRPGSFHG 240

QY 241 LSSLLKLWVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHLELTPURYLVELHLHN 300  
DB 241 LSSLLKLWVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHLELTPURYLVELHLHN 300

QY 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASFQCSAPFINDAPR 360  
DB 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASFQCSAPFINDAPR 360

QY 361 DLNISSEGRMAELKCRTPPMSSVKWLLPNGTVLASHASHPRISVLNDGTILNFSHVLSDTG 420  
DB 361 DLNISSEGRMAELKCRTPPMSSVKWLLPNGTVLASHASHPRISVLNDGTILNFSHVLSDTG 420

QY 421 VYTCMVTNVAGNSNASAYLNVTAEINTSNYSPTFTVTVETTEISPEDTTRKYKVPPTTS 480  
DB 421 VYTCMVTNVAGNSNASAYLNVTAEINTSNYSPTFTVTVETTEISPEDTTRKYKVPPTTS 480

QY 481 TGQOPAYTTSTTVLIQTRVPKQVAVPADTDDKMTSLDEVMKTKIILIGCFVAVTLLA 540  
DB 481 TGQOPAYTTSTTVLIQTRVPKQVAVPADTDDKMTSLDEVMKTKIILIGCFVAVTLLA 540

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RESULT 25

US-09-997-666-229  
; Sequence 229, Application US/09997666  
; Publication No. US20030027163A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napiet, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zheng, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C42  
CURRENT APPLICATION NUMBER: US/09/997,666  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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 PRIOR APPLICATION NUMBER: 60/092182  
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 61 CTRGLSEVPQIPSNTRYLNLMENNIQMIQADTFRLHLEVLQGRNSIRQIEVGAFN 120  
 121 GLASNTLELFDNWLTVPSGAFYLSKRLNRPPIESPSYAFNRPVPSLMRLDLGE 180  
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 181 LKLEVISSEGAFLFKYLNLGMCNIKDMPNLTPLVGLLELMGSGNFFPEIRPGSRHG 240  
 181 LKLEVISSEGAFLFKYLNLGMCNIKDMPNLTPLVGLLELMGSGNFFPEIRPGSRHG 240  
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 361 DLNISGRMAELKCRTPPNSVXKLLPNGVLSHARSHPRIISVLNDGTLNFSHLLSDTG 420  
 421 VYTCWTVNAGNSASAYLNSTAEINTSNYSFFTVTVTEISPEDTTRKYKEVPTTS 480

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 481 TGVPAYTTSITVLITQTRVPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
 481 TGVPAYTTSITVLITQTRVPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
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 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPVIIOHTHKQVQETQI 653  
 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPVIIOHTHKQVQETQI 653

## RESULT 26

US-09-990-438-229  
 ; Sequence 229, Application US/09990438  
 ; Publication No. US20030027754A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Batou, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerritsen, Hanspeter  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kijavir, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C3  
 ; CURRENT APPLICATION NUMBER: US/09/990,438  
 ; PRIOR FILING DATE: 2001-11-14  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
 ; PRIOR FILING DATE: 1997-11-12  
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 ; PRIOR FILING DATE: 1998-02-25  
 ; PRIOR APPLICATION NUMBER: 60/078910  
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73 PRIOR FILING DATE: 1998-06-18

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5 PRIOR APPLICATION NUMBER: 60/089948  
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17 PRIOR APPLICATION NUMBER: 60/090355  
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65 PRIOR APPLICATION NUMBER: 60/091633  
66 PRIOR FILING DATE: 1998-07-02  
67 PRIOR APPLICATION NUMBER: 60/091978  
68 PRIOR FILING DATE: 1998-07-07  
69 PRIOR APPLICATION NUMBER: 60/091982  
70 PRIOR FILING DATE: 1998-07-07  
71 PRIOR APPLICATION NUMBER: 60/092182  
72 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLQVTVHHHTWNAILLFPVYLTAAQWILCAIAAASAGPQNCPSVCSCSNQSKYV 60  
1 MKLLQVTVHHHTWNAILLFPVYLTAAQWILCAIAAASAGPQNCPSVCSCSNQSKYV 60

61 CTRGLSEVPOGIPSNTRYINLMENNI:OMIQADTFRLHLEVLQJGRNSIRIEVGAFN 120  
61 CTRGLSEVPOGIPSNTRYINLMENNI:OMIQADTFRLHLEVLQJGRNSIRIEVGAFN 120

121 GLASLNTLELFDNWLTVIPSCAFEYLSKLBELMLRNPNIESIPSYAFNRPVSLMRDLGAE 180  
121 GLASLNTLELFDNWLTVIPSCAFEYLSKLBELMLRNPNIESIPSYAFNRPVSLMRDLGAE 180

181 LKLEVISSEGAPEGLFWLKYLNLMCMNKMPLNLTPLVGLLELEMSGNHFFPIRPGSFHG 240  
181 LKLEVISSEGAPEGLFWLKYLNLMCMNKMPLNLTPLVGLLELEMSGNHFFPIRPGSFHG 240

241 LSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300  
241 LSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300

301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPWHRGRYLVEVDQASFOCSAPFIMDAFR 360  
301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPWHRGRYLVEVDQASFOCSAPFIMDAFR 360

361 DLNISEGRMAELKCRTPPMSSVKMLLPNGVTLVSHASHRPRI:SVLNDGTINFSHVLLSDTG 420  
361 DLNISEGRMAELKCRTPPMSSVKMLLPNGVTLVSHASHRPRI:SVLNDGTINFSHVLLSDTG 420

421 VTCMTVTVAGNSNAGSLYLVNSTAEINTSNYSFTTIVTETTESPEDTRKYPVPTTS 480  
421 VTCMTVTVAGNSNAGSLYLVNSTAEINTSNYSFTTIVTETTESPEDTRKYPVPTTS 480

481 TGYQPAYTSTTVLIQITRYPKOVAVPADTDDKMTSLDENVKTKIIGCFVAVTLIA 540  
481 TGYQPAYTSTTVLIQITRYPKOVAVPADTDDKMTSLDENVKTKIIGCFVAVTLIA 540

541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600  
541 AAMLIVFYKLRKHQRQSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600

601 IHDHINVTYKPAHGAHWHTENSIGNSLHPTVTITSEPIYIIQHTKDKVQETQI 653  
601 IHDHINVTYKPAHGAHWHTENSIGNSLHPTVTITSEPIYIIQHTKDKVQETQI 653

## RESULT 27

S-09-990-562-229

Sequence 229, Application US/09990562

Publication No. US20030027985A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Wickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C18  
CURRENT APPLICATION NUMBER: US/09/990,562  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
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Query Match 100.0%; Score 653; DB 11; Length 653;  
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 DB 61 CTRGLSEVPQGPISNTRYLNMENNIOQADTFRLHLLHLEVLQLRNRSIRQIEVAFN 120  
 QY 121 GLASLNTLELFDNMELTVIPSGAFYLSKRLRELWLNPNIPISPSYAFNRPVSLMRLDGE 180  
 DB 121 GLASLNTLELFDNMELTVIPSGAFYLSKRLRELWLNPNIPISPSYAFNRPVSLMRLDGE 180  
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 DB 181 LKKLEYIISGAFEGFLNFKYLNLMGNCNIKDMPNLTPLVGLLEEMSGNHFPPIRPGSFHG 240  
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 DB 301 PWNCCDILWLAWLREYIPTNSTCCGCHAPMEMRGYLVVDQASFOCSAPPIMDAPR 360  
 QY 361 DLNISEGRMAELKCRTPPMSSVKVLLPNGTVLSASRHPRIISVLDGTLNFSHVLLSDTG 420  
 DB 361 DLNISEGRMAELKCRTPPMSSVKVLLPNGTVLSASRHPRIISVLDGTLNFSHVLLSDTG 420  
 QY 421 VYTCMTVWAGNSASAYLVNSTAELNLSYSPFTTVTETTRISPEDTTRKYKPVPTTS 480  
 DB 421 VYTCMTVWAGNSASAYLVNSTAELNLSYSPFTTVTETTRISPEDTTRKYKPVPTTS 480  
 QY 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
 DB 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540

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541 AAMLIYKURKHQORSTVTAARTVEIIQVDRDIPAAATSAATAAPSGVSGEAVVLP 600  
601 IHDHINTYKPAHGAHWENSLNSLHPTVTITISPPYIIQHTTKDKVOETQI 653  
601 IHDHINTYKPAHGAHWENSLNSLHPTVTITISPPYIIQHTTKDKVOETQI 653

RESULT 28  
US-09-990-711-229  
Sequence 229, Application US/09990711  
Publication No US2003003202A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PLC2  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: US/09/990,711  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR FILING DATE: 1998-04-28  
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PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
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PRIOR FILING DATE: 1998-06-04

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 PRIOR APPLICATION NUMBER: 60/091778  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
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 1 MLLNQVTHHTWAILLPFVYVTAQVWILCAATAAASAGPQPCPSVCSCSNQFSKVW 60

QY 61 CTRGLSEVPQGISNTRYLNLMENNIQYQADFRHLHLHLVLQGRNSIROIEVGAFN 120  
 DB 61 CTRGLSEVPQGISNTRYLNLMENNIQYQADFRHLHLHLVLQGRNSIROIEVGAFN 120  
 QY 121 GLASLNTLLEFDNMLTVPSCAFYVLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGE 180  
 DB 121 GLASLNTLLEFDNMLTVPSCAFYVLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGE 180  
 QY 181 LKLEYSISEGAFEGFLPNLYNLGCMNFKOMPATPLVGLLEELMSGNHHPETRPQSPHG 240  
 DB 181 LKLEYSISEGAFEGFLPNLYNLGCMNFKOMPATPLVGLLEELMSGNHHPETRPQSPHG 240  
 QY 241 LSSLKLWVMSQVSLIERNAFDGLASLVELNLAHNNLSSLPDHLFTPLRYLYVELHLHN 300  
 DB 241 LSSLKLWVMSQVSLIERNAFDGLASLVELNLAHNNLSSLPDHLFTPLRYLYVELHLHN 300  
 QY 301 PWCDCDILWLAWLRLBYIPNNSCCGRCHAPMRGRYLVEDVDQASFOCSAPFMDAPR 360  
 DB 301 PWCDCDILWLAWLRLBYIPNNSCCGRCHAPMRGRYLVEDVDQASFOCSAPFMDAPR 360  
 QY 361 DNIISGRMAELKCRTPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLNPSHVLSDTG 420  
 DB 361 DNIISGRMAELKCRTPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLNPSHVLSDTG 420  
 QY 421 VYTCMVTNVAGNSNASAYLVNSTALNTSNYSPTTPTVTVTETETESPEDTTRKYKVPVTTIS 480  
 DB 421 VYTCMVTNVAGNSNASAYLVNSTALNTSNYSPTTPTVTVTETETESPEDTTRKYKVPVTTIS 480  
 QY 481 TGOYAPYTTSTVLQOTTRVPKQVAVPATDTDKMQLSDVMKTKLIIGCFVAVTLLA 540  
 DB 481 TGOYAPYTTSTVLQOTTRVPKQVAVPATDTDKMQLSDVMKTKLIIGCFVAVTLLA 540  
 QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVVLPT 600  
 DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVVLPT 600  
 QY 601 IIDHINNTYKPAHGAHNTENSLNSLHPTVTTTISEPYIIOTHTKQVQETQI 653  
 DB 601 IIDHINNTYKPAHGAHNTENSLNSLHPTVTTTISEPYIIOTHTKQVQETQI 653

RESULT 29

US-09-989-726-229  
 ; Sequence 229, Application US/09989726  
 ; Publication No. US20030040473A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan E.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same

1	PRIOR APPLICATION NUMBER: 60/088876
2	PRIOR FILING DATE: 1998-06-11
3	PRIOR APPLICATION NUMBER: 60/089105
4	PRIOR FILING DATE: 1998-06-12
5	PRIOR APPLICATION NUMBER: 60/089440
6	PRIOR FILING DATE: 1998-06-16
7	PRIOR APPLICATION NUMBER: 60/089512
8	PRIOR FILING DATE: 1998-06-16
9	PRIOR APPLICATION NUMBER: 60/089514
10	PRIOR FILING DATE: 1998-06-16
11	PRIOR APPLICATION NUMBER: 60/089532
12	PRIOR FILING DATE: 1998-06-17
13	PRIOR APPLICATION NUMBER: 60/089538
14	PRIOR FILING DATE: 1998-06-17
15	PRIOR APPLICATION NUMBER: 60/089598
16	PRIOR FILING DATE: 1998-06-17
17	PRIOR APPLICATION NUMBER: 60/089599
18	PRIOR FILING DATE: 1998-06-17
19	PRIOR APPLICATION NUMBER: 60/089600
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25	PRIOR APPLICATION NUMBER: 60/089907
26	PRIOR FILING DATE: 1998-06-18
27	PRIOR APPLICATION NUMBER: 60/089908
28	PRIOR FILING DATE: 1998-06-18
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33	PRIOR APPLICATION NUMBER: 60/089952
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39	PRIOR APPLICATION NUMBER: 60/090254
40	PRIOR FILING DATE: 1998-06-22
41	PRIOR APPLICATION NUMBER: 60/090349
42	PRIOR FILING DATE: 1998-06-23
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44	PRIOR FILING DATE: 1998-06-23
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46	PRIOR FILING DATE: 1998-06-24
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51	PRIOR APPLICATION NUMBER: 60/090444
52	PRIOR FILING DATE: 1998-06-24
53	PRIOR APPLICATION NUMBER: 60/090445
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70	PRIOR FILING DATE: 1998-06-25
71	PRIOR APPLICATION NUMBER: 60/090694
72	PRIOR FILING DATE: 1998-06-25
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; PRIOR FILING DATE: 1998-06-25  
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 ; PRIOR FILING DATE: 1998-06-25  
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 ; PRIOR FILING DATE: 1998-06-26  
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 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB	1	MKLLQVTHHTWNAIELPFYVLAQVWILCAATAAASAGPQNCPSVCSCSNQPSKV 60
QY	61	CTRRGLSEVPOGIPSNTRYNLNMENNIQVIQADTFRHLHLHLEVLQLGNSIRQIEVGAFN 120
DB	61	CTRRGLSEVPOGIPSNTRYNLNMENNIQVIQADTFRHLHLHLEVLQLGNSIRQIEVGAFN 120
QY	121	GLASINTLELFWNLTVTPSGAFYLSKLRLEWLNRNPIESIPSYAFNRVPSLRLDLGE 180
DB	121	GLASINTLELFWNLTVTPSGAFYLSKLRLEWLNRNPIESIPSYAFNRVPSLRLDLGE 180
QY	181	LKKLEVISGAEGLFNLKYLNGKNCNKMPNLPLVGLBELEMSGNHFFPIRPGSPFHG 240
DB	181	LKKLEVISGAEGLFNLKYLNGKNCNKMPNLPLVGLBELEMSGNHFFPIRPGSPFHG 240
QY	241	LSSLKXLWMNSQVSLIERNAPDGLASVLELNAHNNLSLPHDLFTPLRYLVELHLHN 300
DB	241	LSSLKXLWMNSQVSLIERNAPDGLASVLELNAHNNLSLPHDLFTPLRYLVELHLHN 300
QY	301	PWNCDDILWLAWNLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPPIMDAPR 360
DB	301	PWNCDDILWLAWNLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPPIMDAPR 360
QY	361	DLNISEGRMAELKCRTPPMSSVKMLPNTGTVLSEASRHPRIISVLDGTLNFSHVLLSDTG 420
DB	361	DLNISEGRMAELKCRTPPMSSVKMLPNTGTVLSEASRHPRIISVLDGTLNFSHVLLSDTG 420
QY	421	VYTCWTVNAGNSASAYLNSTABLNSTNSYFFTTVTTEISPEDTTKKYPVPTTS 480
DB	421	VYTCWTVNAGNSASAYLNSTABLNSTNSYFFTTVTTEISPEDTTKKYPVPTTS 480
QY	481	TCYQPAYTTSTTVLQITTRVPKQVAPATDTDRKQMTSLDEVMKTKIIIGCFVAVTLLA 540
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QY	541	AAMLIVPKLRKHQRSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVVLP 600
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QY	601	IDHINYNNTYKPAHGAHNTENSLGNSLHPTVTITISEPVIIOHTHKVKQVETQI 653
DB	601	IDHINYNNTYKPAHGAHNTENSLGNSLHPTVTITISEPVIIOHTHKVKQVETQI 653

RESULT 30  
 US-09-998-156-229  
 ; Sequence 229, Application US/09998156  
 ; Publication No. US20030044806A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
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 ; APPLICANT: Tumas, Daniel  
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 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC28  
 ; CURRENT APPLICATION NUMBER: US/09/998.156  
 ; PRIOR FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
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43 PRIOR APPLICATION NUMBER: 60/091478  
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52 PRIOR FILING DATE: 1998-07-02  
53 PRIOR APPLICATION NUMBER: 60/091978  
54 PRIOR FILING DATE: 1998-07-07  
55 PRIOR APPLICATION NUMBER: 60/091982  
56 PRIOR FILING DATE: 1998-07-07  
57 PRIOR APPLICATION NUMBER: 60/092182  
58 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
Matches 653; Conservative 0;

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Qy 61 CTRGISEVDPQIGPSNTRYLNLMENNIQMIQADTFPHLHLEVLQGRNSIQIEVGAFN 120  
Dd 61 CTRGISEVDPQIGPSNTRYLNLMENNIQMIQADTFPHLHLEVLQGRNSIQIEVGAFN 120  
Qy 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRELWLNPNPTIESPSVAFNRVPSLMLDLGE 180

Db 121 GLASLNTLEFDNWLTVIPSGAFYLSKRLRLNRPNPIESIPSYAFNRVPSPMLRDLGE 180  
Qy 181 LKXLEYISECAPGLFNEKYNLNGVGNIKDMNLTPLVGLLELESGNHFFPIRPGSHG 240  
Db 181 LKXLEYISECAPGLFNEKYNLNGVGNIKDMNLTPLVGLLELESGNHFFPIRPGSHG 240  
Qy 241 LSSKLKLVNNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRLVLELHLHN 300  
Db 241 LSSKLKLVNNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRLVLELHLHN 300  
Qy 301 PWCDCDILWLANWLEYIPTNSTCCGRCHAPMHMRGRVLVSDQASQCSAPFTMDAPR 360  
Db 301 PWCDCDILWLANWLEYIPTNSTCCGRCHAPMHMRGRVLVSDQASQCSAPFTMDAPR 360  
Qy 361 DLNISGRVAELKCRTPPSSVKWLLPNGTIVLSHSHRHPRI SVLMDGTINFSHVLLSDTG 420  
Db 361 DLNISGRVAELKCRTPPSSVKWLLPNGTIVLSHSHRHPRI SVLMDGTINFSHVLLSDTG 420  
Qy 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFITVTVETTESPEDTRKYKVPVPTS 480  
Db 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFITVTVETTESPEDTRKYKVPVPTS 480  
Qy 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVVLP 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVVLP 600  
Qy 601 IHDHINNTYKPAKGAHNTENSLSNLSHTVTITISEPYIIQHTKDKVQETQI 653  
Db 601 IHDHINNTYKPAKGAHNTENSLSNLSHTVTITISEPYIIQHTKDKVQETQI 653

## RESULT 31

US-09-990-437-229  
; Sequence 229, Application US/09990437  
; Publication No. US20030045463A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC49  
; CURRENT APPLICATION NUMBER: US/09/990,437  
; CURRENT FILING DATE: 2001-11-16  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
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QY 1 MLLWQTVVHHHTWNAILLPFVYLTQWVILCAAIAAASAGPQNCPSVCSCSNQSKVV 60  
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 DB 61 CTRRGLESEVPQIPSNTRYLNLMENNIQMIQADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
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 QY 181 LKXLEYISSEGAFFGLFNLYNLGMNKNIDMPLAVGLEHLEMSGNHFPEIRPGSPHG 240  
 DB 181 LKXLEYISSEGAFFGLFNLYNLGMNKNIDMPLAVGLEHLEMSGNHFPEIRPGSPHG 240  
 QY 241 LSSLLKLWVNSQVSLIERNAPDGLASLVEELAHNLSLPHDLFTPLRYLVELHLEHN 300  
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 QY 301 PWNCDILMLAWMLREYIPTNSTCCGRCHAPMHRGRLVLEVDQASFOCSAFFINDAPR 360  
 DB 301 PWNCDILMLAWMLREYIPTNSTCCGRCHAPMHRGRLVLEVDQASFOCSAFFINDAPR 360  
 QY 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTILNFSHVLLSDTG 420  
 DB 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTILNFSHVLLSDTG 420  
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 DB 421 VYTCMVTNVAGNSNASAYLNVSSTAEINTSNYSFFTTVTVEITEISPDTRRYKVPPTTS 480  
 QY 481 TGYOPATTTSTTVLIOTTRVPKQVAPATDTRKMTSLDEYKTKTIIIGCFVAVTLLA 540  
 DB 481 TGYOPATTTSTTVLIOTTRVPKQVAPATDTRKMTSLDEYKTKTIIIGCFVAVTLLA 540  
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 DB 601 IHDHINYNTYKPAHGAHTWNTENSLGNSLHPTVTTISEPYIIOTHTKKVQETQI 653

RESULT 32  
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 ; Sequence 229, Application US/09991157  
 ; Publication No. US20030049638A1  
 ; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P273091051  
CURRENT APPLICATION NUMBER: US/09/991,157  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR APPLICATION NUMBER: 60/065311  
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PRIOR APPLICATION NUMBER: 60/089908  
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PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
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PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
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PRIOR APPLICATION NUMBER: 60/090254  
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PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431

1 PRIOR FILING DATE: 1998-06-24  
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1 PRIOR APPLICATION NUMBER: 60/091544  
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1 PRIOR FILING DATE: 1998-07-02  
1 PRIOR APPLICATION NUMBER: 60/091633  
1 PRIOR FILING DATE: 1998-07-02  
1 PRIOR APPLICATION NUMBER: 60/091978  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/091982  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/092182  
1 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 MKLAWQVTHHTWNAILLFVLTQWVILCAIAAASAGPNCPSVCSNQSKV 60  
1 MKLAWQVTHHTWNAILLFVLTQWVILCAIAAASAGPNCPSVCSNQSKV 60  
61 CTRGLSEVPQGISPNRYLNLNENNIQIQAOTFRHLHLEVLQGRNSIQIEVGFN 120  
61 CTRGLSEVPQGISPNRYLNLNENNIQIQAOTFRHLHLEVLQGRNSIQIEVGFN 120  
121 GLASLNTLELFDNNLTVIPSGAFEYLSKRELWLRNPNIESIPSYAFNRVPSLMRLDLGE 180  
121 GLASLNTLELFDNNLTVIPSGAFEYLSKRELWLRNPNIESIPSYAFNRVPSLMRLDLGE 180  
181 LKLEVISGAFEGFLNKLNLGMONIKNPNI.TPLVGLLEELMSGNHFFPEIRCSFSG 240  
181 LKLEVISGAFEGFLNKLNLGMONIKNPNI.TPLVGLLEELMSGNHFFPEIRCSFSG 240  
241 LSSLKLUWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHFN 300

Db 241 LSSLKLUWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHFN 300  
QY 301 PWNCCDILWLAWLREYIPNSTCCGRCHAPMGRYLVVEVDQASFQCSAPPIMDAPR 360  
Db 301 PWNCCDILWLAWLREYIPNSTCCGRCHAPMGRYLVVEVDQASFQCSAPPIMDAPR 360  
QY 361 DLNITSEGRMELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLLSDYG 420  
Db 361 DLNITSEGRMELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLLSDYG 420  
QY 421 VYTCMVTVNAGNSASAVLNUTAEIANTSNYSFETTVTTEISPEDTRKYPVPTTS 480  
Db 421 VYTCMVTVNAGNSASAVLNUTAEIANTSNYSFETTVTTEISPEDTRKYPVPTTS 480  
QY 481 TCYQPAYTSTTVLIQTTRVPKQVAVPATDTTDKQVTSLEDEWMTTKIIIGCFVAVTLLA 540  
Db 481 TCYQPAYTSTTVLIQTTRVPKQVAVPATDTTDKQVTSLEDEWMTTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAAETVEIIQVDEIPAAATSAATAAPSGVSGEAVVLTPT 600  
Db 541 AAMLIVFYKLRKHQRSTVTAAETVEIIQVDEIPAAATSAATAAPSGVSGEAVVLTPT 600  
QY 601 IHDHINYNTYKPAHGAHWNTENSLNHLPTVTITISEPYIIQTHTKQVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWNTENSLNHLPTVTITISEPYIIQTHTKQVQETQI 653

RESULT 33  
US-09-997-514-229  
Sequence 229, Application US/09997514  
Publication No. US20030049681A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C46  
CURRENT APPLICATION NUMBER: US/09/997,514  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945



[illegible]

;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKLLQVTVVHTHTWAILLPVYLTATQWILCAIAAASAGPQNCPSVCSNQPSKVY	60
DB	1	MKLLQVTVVHTHTWAILLPVYLTATQWILCAIAAASAGPQNCPSVCSNQPSKVY	60
QY	61	CTRGLSEVPOGIPNTRYLNLMMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVCAFN	120
DB	61	CTRGLSEVPOGIPNTRYLNLMMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVCAFN	120
QY	121	GLASLNTLEFDNLTVPSCGAFYVLSKRLRLNRNPIESIPSYAFNRVPSLMDLGE	180
DB	121	GLASLNTLEFDNLTVPSCGAFYVLSKRLRLNRNPIESIPSYAFNRVPSLMDLGE	180
QY	181	LKLEYISEGAFEGFNLYKLNLCMCNKMPNLTPLVGLLEEMSGNHPSPRPSFGH	240
DB	181	LKLEYISEGAFEGFNLYKLNLCMCNKMPNLTPLVGLLEEMSGNHPSPRPSFGH	240
QY	241	LSSKLKLVWNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYELVELHLHN	300
DB	241	LSSKLKLVWNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYELVELHLHN	300
QY	301	PWNCDDTLALAWLREYIPNNTCCGCHAPMGRGYLVVDQASFOCSAPFINDAPR	360
DB	301	PWNCDDTLALAWLREYIPNNTCCGCHAPMGRGYLVVDQASFOCSAPFINDAPR	360
QY	361	DLNISGRMAELKRTPPMSVSKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLSDTG	420
DB	361	DLNISGRMAELKRTPPMSVSKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLSDTG	420
QY	421	VYTCWTVNAGNSASAVLNSTAEMLNYSFPTTVTTTISPEDTTRKYPVPTTS	480
DB	421	VYTCWTVNAGNSASAVLNSTAEMLNYSFPTTVTTTISPEDTTRKYPVPTTS	480
QY	481	TGYOPAYTSTTVLIQTRVPKQAVPATDTDDQOTSLDEVVKTKIIGCFVAVTLLA	540
DB	481	TGYOPAYTSTTVLIQTRVPKQAVPATDTDDQOTSLDEVVKTKIIGCFVAVTLLA	540
QY	541	AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVVLP	600
DB	541	AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVVLP	600
QY	601	IHDHINVTYKPAHGAHTWNSLGNLSHPVTVTISBPYIIQHTKDKVQETQI	653
DB	601	IHDHINVTYKPAHGAHTWNSLGNLSHPVTVTISBPYIIQHTKDKVQETQI	653

RESULT 34

US-09-997-573-229

Sequence 229, Application US/09997573

Publication No US20030049682A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tamas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; TITLE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: P2730PIC45  
;; CURRENT APPLICATION NUMBER: US/09/997,573  
;; CURRENT FILING DATE: 2001-11-15  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
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 ; PRIOR APPLICATION NUMBER: 60/090863  
 ; PRIOR FILING DATE: 1998-06-26  
 ; PRIOR APPLICATION NUMBER: 60/091360  
 ; PRIOR FILING DATE: 1998-07-01  
 ; PRIOR APPLICATION NUMBER: 60/091478  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091544  
 ; PRIOR FILING DATE: 1998-07-01  
 ; PRIOR APPLICATION NUMBER: 60/091519  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091626  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091633  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKLLMQVTHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQPSKVY	60
Db	1	MKLLMQVTHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQPSKVY	60
QY	61	CTRGSLSEVPQGPISNTRYLNLMENNIQMIQADTFRLHLHLLEVQLGRNSIRQIEVGAFN	120
Db	61	CTRGSLSEVPQGPISNTRYLNLMENNIQMIQADTFRLHLHLLEVQLGRNSIRQIEVGAFN	120
QY	121	GLASLNTLELFDNMULTVTPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLNRDLGE	180
Db	121	GLASLNTLELFDNMULTVTPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLNRDLGE	180
QY	181	LKKLEYISEGAPEGLFNLKYLNLGMCNIKOMPNTPLVGLLEELMSGNHFPETRPGSFHG	240
Db	181	LKKLEYISEGAPEGLFNLKYLNLGMCNIKOMPNTPLVGLLEELMSGNHFPETRPGSFHG	240
QY	241	LSSLLKLLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHLHN	300
Db	241	LSSLLKLLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHLHN	300
QY	301	PWNCDDILWLAWLREVIPNTNSTCCGRCHAPMGRGYLVEVDQASFOCSAPFIMDAPR	360
Db	301	PWNCDDILWLAWLREVIPNTNSTCCGRCHAPMGRGYLVEVDQASFOCSAPFIMDAPR	360

2y 361 DLNISEGMAELKCRTPMSSVKXLLPNGTVLSHASPRLISVLNDGTINFSHVLLSDTG 420  
361 DLNISEGMAELKCRTPMSSVKXLLPNGTVLSHASPRLISVLNDGTINFSHVLLSDTG 420  
2y 421 VYTCWTVNVAAGNSASAYLNSTAEALNTSNYSFPFTTVTVTTTISPEDITTRKYPVPTTS 480  
421 VYTCWTVNVAAGNSASAYLNSTAEALNTSNYSFPFTTVTVTTTISPEDITTRKYPVPTTS 480  
2y 481 TGYOPAYTTSTTVLIOTTRVPKQAVPATDTTDDKQTSLSDEWVKTKYIIIGCFVAVTLLA 540  
481 TGYOPAYTTSTTVLIOTTRVPKQAVPATDTTDDKQTSLSDEWVKTKYIIIGCFVAVTLLA 540  
2y 541 AAMLIVFYKLRKHQRQSTVTAARTVHIIQVDEIPAAATSAATAAPSGVSGGAVVLP 600  
541 AAMLIVFYKLRKHQRQSTVTAARTVHIIQVDEIPAAATSAATAAPSGVSGGAVVLP 600  
2y 601 IHDHINVTYKPAHGAHWNTENSLGSLHPTVTTISEPYIIQTHTKQVQSTQI 653  
601 IHDHINVTYKPAHGAHWNTENSLGSLHPTVTTISEPYIIQTHTKQVQSTQI 653

## RESULT 35

US-09-991-172-229

Sequence 229, Application US/09991172

Publication No. US20030050457A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C50  
CURRENT APPLICATION NUMBER: US/09/991,172  
PRIORITY FILING DATE: 2001-11-16  
PRIORITY FILING DATE: 1997-06-16  
PRIORITY FILING DATE: 1997-10-17  
PRIORITY FILING DATE: 1997-11-12  
PRIORITY FILING DATE: 1997-11-13  
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07

; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MKLLQVTVHHHTWNAILLPFVYLTAQVWLICAAIAAASAGPQNCFSVCSCSNQFSKV 60
QY 61 CTRRGISEVPOGISNTRYLNLMENNIOMIQADTFRLHLLHLEVQLGRNSIRQEVAFN 120
Db 61 CTRRGISEVPOGISNTRYLNLMENNIOMIQADTFRLHLLHLEVQLGRNSIRQEVAFN 120
QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE 180
Db 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE 180
QY 181 LKLEYISEGAFEGFLNLYLNLCMCNIKMPNLTPLVGLBELEMSGNHPRPESFPHG 240
Db 181 LKLEYISEGAFEGFLNLYLNLCMCNIKMPNLTPLVGLBELEMSGNHPRPESFPHG 240
QY 241 LSSLKLLWMSQVSLIERNAFDGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300
Db 241 LSSLKLLWMSQVSLIERNAFDGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300
QY 301 PWNCDILNLAWMLREYIPNTNSTCCORCHAPMRGRYLVVDQASFOCSAPFMDAPR 360
Db 301 PWNCDILNLAWMLREYIPNTNSTCCORCHAPMRGRYLVVDQASFOCSAPFMDAPR 360
QY 361 DINISEGRMAELKCRTPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420
Db 361 DINISEGRMAELKCRTPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420
QY 421 VYTCMVTNAGNSASAYLVNSTAELNNTSYSPFTVTVTETTESIPEDTRKYPVPTTS 480
Db 421 VYTCMVTNAGNSASAYLVNSTAELNNTSYSPFTVTVTETTESIPEDTRKYPVPTTS 480
QY 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTKKQTSLEDEVMKTKLIIGCFVAVTLLA 540
Db 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTKKQTSLEDEVMKTKLIIGCFVAVTLLA 540
QY 541 AAMLIVFYKLAKRKHQRSTVTVAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600
Db 541 AAMLIVFYKLAKRKHQRSTVTVAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600
QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTVTIISBPYIIQTHTKDKVQETQI 653
Db 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTVTIISBPYIIQTHTKDKVQETQI 653

RESULT 36
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; Sequence 229, Application US/09990726
; Publication No. US20030054359A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas P.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C16  
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 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

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 Db 61 CTRAGLSEVPQGPSNRYNLNMENNIOQTQDTRHLEHLEVLQGRNSIRQIEVGFN 120  
 Qy 121 GLASLNTLELFDWNLTVIPSGAPEYLSKRLWLNRPPIESIPSYAFNVPVSLMRLDGE 180  
 Db 121 GLASLNTLELFDWNLTVIPSGAPEYLSKRLWLNRPPIESIPSYAFNVPVSLMRLDGE 180  
 Qy 181 LKLEYISEGAFGLFNLKYLNLGMCNIDKMPNLTPLVGLLEEMSGNHPPIRQSPFG 240  
 Db 181 LKLEYISEGAFGLFNLKYLNLGMCNIDKMPNLTPLVGLLEEMSGNHPPIRQSPFG 240  
 Qy 241 LSSLUKLWVNSQVSLIERNAFQGLASVLELNAHNLSSLPHDLFTPLRYLVELHLHN 300  
 Db 241 LSSLUKLWVNSQVSLIERNAFQGLASVLELNAHNLSSLPHDLFTPLRYLVELHLHN 300  
 Qy 301 PNWCDDILWLAWLRYIIPNTNSCCORCHAPMWRGRLVVEVDQASFOCSAPFIMDAER 360  
 Db 301 PNWCDDILWLAWLRYIIPNTNSCCORCHAPMWRGRLVVEVDQASFOCSAPFIMDAER 360  
 Qy 361 DLNISEGRMAELKCRTPPMSQVXWLLPNGTVLSHGRHPRIISVNLDTGTLNFSHLLSDTG 420  
 Db 361 DLNISEGRMAELKCRTPPMSQVXWLLPNGTVLSHGRHPRIISVNLDTGTLNFSHLLSDTG 420  
 Qy 421 VYTCWNTVAGNSAYLVNVAELNLSNYSPFTTVVETTEISPEDITRKYKVPETTS 480  
 Db 421 VYTCWNTVAGNSAYLVNVAELNLSNYSPFTTVVETTEISPEDITRKYKVPETTS 480

Qy 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540  
 Db 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540  
 Qy 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVLPT 600  
 Db 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVLPT 600  
 Qy 601 IHDHINYNTYKGAHGAHWTEISLNSLHPTVTIISPEYIIQTHTKDKVQETOI 653  
 Db 601 IHDHINYNTYKGAHGAHWTEISLNSLHPTVTIISPEYIIQTHTKDKVQETOI 653

RESULT 37

US-09-997-559-229  
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 ; Publication No. US20030054403A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C40  
 ; CURRENT APPLICATION NUMBER: US/09/997,559  
 ; CURRENT FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
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 ; PRIOR APPLICATION NUMBER: 60/087759

1 PRIOR FILING DATE: 1998-06-02  
2 PRIOR APPLICATION NUMBER: 60/087827  
3 PRIOR FILING DATE: 1998-06-03  
4 PRIOR APPLICATION NUMBER: 60/088021  
5 PRIOR FILING DATE: 1998-06-04  
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8 PRIOR APPLICATION NUMBER: 60/088026  
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15 PRIOR FILING DATE: 1998-06-04  
16 PRIOR APPLICATION NUMBER: 60/088033  
17 PRIOR FILING DATE: 1998-06-04  
18 PRIOR APPLICATION NUMBER: 60/088326  
19 PRIOR FILING DATE: 1998-06-04  
20 PRIOR APPLICATION NUMBER: 60/088167  
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69 PRIOR FILING DATE: 1998-06-18  
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71 PRIOR FILING DATE: 1998-06-18  
72 PRIOR APPLICATION NUMBER: 60/089908  
73 PRIOR FILING DATE: 1998-06-18

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75 PRIOR FILING DATE: 1998-06-19  
76 PRIOR APPLICATION NUMBER: 60/089948  
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139 PRIOR FILING DATE: 1998-07-07  
140 PRIOR APPLICATION NUMBER: 60/091982  
141 PRIOR FILING DATE: 1998-07-07  
142 PRIOR APPLICATION NUMBER: 60/092182  
143 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;



Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 MLLMQVTVHHHTNAILLPFVYLTQVWTLCAIAAASAGPQNCPSVCSCSNQPSKV 60

Qy 61 CTARGSEVPQGISNRYNLNMENNIOIADTFRLHLEHLVQLGRNSIRQIEVGAFN 120  
 Db 61 CTARGSEVPQGISNRYNLNMENNIOIADTFRLHLEHLVQLGRNSIRQIEVGAFN 120

Qy 121 GLASLNTLEFDNWLTVISGAEFYLSKRELWLNPNPIESIPSAFNRVPSLMDLIGE 180  
 Db 121 GLASLNTLEFDNWLTVISGAEFYLSKRELWLNPNPIESIPSAFNRVPSLMDLIGE 180

Qy 181 LKXLEYISEGAFGLFNKLYNLGMCNIXDMPNLTPLVGLLEMSGNHFPBIRGSPHG 240  
 Db 181 LKXLEYISEGAFGLFNKLYNLGMCNIXDMPNLTPLVGLLEMSGNHFPBIRGSPHG 240

Qy 241 LSSIKKLWVWNSQVSLIERNAPDGLASLVLELNAHNLSLPHDLFTPLRYLVELHLHN 300  
 Db 241 LSSIKKLWVWNSQVSLIERNAPDGLASLVLELNAHNLSLPHDLFTPLRYLVELHLHN 300

Qy 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFCQSAFFIMDAPR 360  
 Db 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFCQSAFFIMDAPR 360

Qy 361 DLNISGRMAELKRTPPMSSVKWLLPNGTIVLSHARRPRIISVLDGTLNFSVLLSDTG 420  
 Db 361 DLNISGRMAELKRTPPMSSVKWLLPNGTIVLSHARRPRIISVLDGTLNFSVLLSDTG 420

Qy 421 VYTCWNTVAGNSNAYLNVAELNTSNYSFTVTVEITTEISPEDTRYKVPVPTS 480  
 Db 421 VYTCWNTVAGNSNAYLNVAELNTSNYSFTVTVEITTEISPEDTRYKVPVPTS 480

Qy 481 TGYQPAYTSTTVLIQTRVPKQVAPATDTDKMOTSIDEVWTKTKIIIGCFVAVTLLA 540  
 Db 481 TGYQPAYTSTTVLIQTRVPKQVAPATDTDKMOTSIDEVWTKTKIIIGCFVAVTLLA 540

Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVEDIPAATAAATAAPSGVGEAVLPT 600  
 Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVEDIPAATAAATAAPSGVGEAVLPT 600

Qy 601 IHDHINYNTKPAHGAHWTENSIGNSLHPTVTITSEPIYIQTHTKDKVQETQI 653  
 Db 601 IHDHINYNTKPAHGAHWTENSIGNSLHPTVTITSEPIYIQTHTKDKVQETQI 653

RESULT 38

US-09-997-601-229  
 ; Sequence 229, Application US/09997601  
 ; Publication No. US2003005404A1

GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin I.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
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 ? PRIOR FILING DATE: 1998-07-07  
 ? PRIOR APPLICATION NUMBER: 60/091982  
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 ? PRIOR APPLICATION NUMBER: 60/092182  
 ? PRIOR FILING DATE: 1998-07-09

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DB	61	CTRGSLSEVPOQIPSENTRYLNLMENNIQMIQADTFRHLHLEVLGNSIRQIEVGAFN	120
QY	121	GLASLNTLELFDNWLTVIPSGAFVYLSKRLRELNNPIESIPSYAFNRPVSLMRLOLGE	180
DB	121	GLASLNTLELFDNWLTVIPSGAFVYLSKRLRELNNPIESIPSYAFNRPVSLMRLOLGE	180
QY	181	LKKLEYISEGAPEGLFNLYNLGNCNIKOMPNTPLVLGELBELEMSGNHPPFPGSFHG	240
DB	181	LKKLEYISEGAPEGLFNLYNLGNCNIKOMPNTPLVLGELBELEMSGNHPPFPGSFHG	240
QY	241	LSSIAKLVWMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN	300
DB	241	LSSIAKLVWMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN	300
QY	301	PWNCDDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYLVVEVDQASFQCSAPFMDAPR	360
DB	301	PWNCDDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYLVVEVDQASFQCSAPFMDAPR	360
QY	361	DLNISEGMAELKCKTTPMSSVKMLLPNGTVLSHARPRISVLNDGTLPASHVLLSDTG	420
DB	361	DLNISEGMAELKCKTTPMSSVKMLLPNGTVLSHARPRISVLNDGTLPASHVLLSDTG	420
QY	421	VYTCMVTVNAGNSASAYLVNSTAELNYSFFTTVTVEITEISPEDTTTKYKXPVPTS	480
DB	421	VYTCMVTVNAGNSASAYLVNSTAELNYSFFTTVTVEITEISPEDTTTKYKXPVPTS	480
QY	481	TCYQPAYTSTTVLIQTRVFKQVAVPATDITDKQKQSLDEWMTKLIIGCFVAVTLLA	540
DB	481	TCYQPAYTSTTVLIQTRVFKQVAVPATDITDKQKQSLDEWMTKLIIGCFVAVTLLA	540
QY	541	AAWLJVEYKLRKHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT	600



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Prior Application Number: 60/091978  
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Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
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61 CTRGLSEVPGIPENTRYLNMENNIQMIQADTFRLHLHLVQLGRNSIRQIEVCAF 120

Db 61 CTRGLSEVPGIPENTRYLNMENNIQMIQADTFRLHLHLVQLGRNSIRQIEVCAF 120  
Qy 121 GLASLNTLELFDNMLTVIPSGAFAYLSKRLRLRNPIESIPSYAFNRVPSLMLDLGE 180  
Db 121 GLASLNTLELFDNMLTVIPSGAFAYLSKRLRLRNPIESIPSYAFNRVPSLMLDLGE 180  
Qy 181 LKLEVIYSEGAFEGFLNKLKYNLGNKCNIKOMPNTFPLVGLLEELSMGNHFFIIRPGSPHG 240  
Db 181 LKLEVIYSEGAFEGFLNKLKYNLGNKCNIKOMPNTFPLVGLLEELSMGNHFFIIRPGSPHG 240  
Qy 241 LSLAKLWYMSOVSILERNAPDGLASLVEINLAHNNLSLPHDLFTPLRYLVLELHLHN 300  
Db 241 LSLAKLWYMSOVSILERNAPDGLASLVEINLAHNNLSLPHDLFTPLRYLVLELHLHN 300  
Qy 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHGRGYLYVEVDQASQCSAPFIMDAPR 360  
Db 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHGRGYLYVEVDQASQCSAPFIMDAPR 360  
Qy 361 DLNISEGRMAELKCTPDKSSVYKLLPNGTVLSHASRHPRIISVINDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCTPDKSSVYKLLPNGTVLSHASRHPRIISVINDGTLNFSHVLLSDTG 420  
Qy 421 VYTCMVTNVAGNSNAYLNVSTAEELNTSNYSFFTTVTVEITSPEDTTRKYPVPTTS 480  
Db 421 VYTCMVTNVAGNSNAYLNVSTAEELNTSNYSFFTTVTVEITSPEDTTRKYPVPTTS 480  
Qy 481 TCGPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKKIIIGCFVAVTLLA 540  
Db 481 TCGPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKKIIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
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RESULT 40  
US-09-991-854-229  
Sequence 229, Application US/09991854  
Publication No. US20030059780A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730FIC24  
CURRENT APPLICATION NUMBER: US/09/991,854

1 CURRENT FILING DATE: 2001-11-14  
2 PRIOR APPLICATION NUMBER: 60/049787  
3 PRIOR FILING DATE: 1997-06-16  
4 PRIOR APPLICATION NUMBER: 60/062250  
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8 PRIOR APPLICATION NUMBER: 60/065311  
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10 PRIOR APPLICATION NUMBER: 60/066770  
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13 PRIOR FILING DATE: 1998-02-25  
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; 1 M K L W Q V T V H H T W N A I L P P V Y L T A Q W I L C A A I A A A A S A G P Q N C S C S N Q S K V 60

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; 61 C T R G L S E V P G I S E N T R Y L N M E N N I Q M T Q D T F R L H L E V L Q G R N S I R O I E V G A F N 120

; 121 G L A S L A N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D L G E 180
; 121 G L A S L A N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D L G E 180

; 181 L K K L E Y I S E G A F E G L N L K Y L N G M C N I K M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240
; 181 L K K L E Y I S E G A F E G L N L K Y L N G M C N I K M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240

; 241 L S S L K L W A N S Q V S L I E R N A F D G L A S L V E L N L A H N N I S L P H D L T P L R Y L V E L L H L H N 300
; 241 L S S L K L W A N S Q V S L I E R N A F D G L A S L V E L N L A H N N I S L P H D L T P L R Y L V E L L H L H N 300

; 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P W H M G R Y L V E V D Q A S F Q C S A P F I M D A P R 360
; 301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P W H M G R Y L V E V D Q A S F Q C S A P F I M D A P R 360

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; 361 D L N T S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

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; 481 T G Y O P A T T T V L I O T R V P K O V A P A T O T D K M O T S L D E V M K T K I I G C F V A V T L A A 540
; 481 T G Y O P A T T T V L I O T R V P K O V A P A T O T D K M O T S L D E V M K T K I I G C F V A V T L A A 540

; 541 A A M L I V P Y K L R K R H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L F T 600
; 541 A A M L I V P Y K L R K R H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L F T 600

; 601 I H D H I N T N T Y K P A H G A R W T E N S L G N S L H P T V T T I S E P Y I I Q H T K D K V O E T Q I 653
; 601 I H D H I N T N T Y K P A H G A R W T E N S L G N S L H P T V T T I S E P Y I I Q H T K D K V O E T Q I 653
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## RESULT 41

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US-09-997-628-229
; Sequence 229, Application US/09997628
; Publication No. US20030059782A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tomas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C30
; CURRENT APPLICATION NUMBER: US/09/997,628
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	1	MKLLMQVTVHHHTWNAILLPFVYLTQWILCAATAAASAGPQNCPSVCSCSNQFSKV	60
Qy	61	CTRRGLSEVPQIGIPSNTRYLNLMENNIOMIADTFRHLHLHLVQLGRNSIRQIEVGAFN	120
Db	61	CTRRGLSEVPQIGIPSNTRYLNLMENNIOMIADTFRHLHLHLVQLGRNSIRQIEVGAFN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSYAFNRVPSLMRLDGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNPIESIPSYAFNRVPSLMRLDGE	180

181 LKLEYISEGAFGLFNLKYLNLGKNCI KOMPNIPLVGLLEELMSGNHPEIRPGSFHG 240  
181 LKLEYISEGAFGLFNLKYLNLGKNCI KOMPNIPLVGLLEELMSGNHPEIRPGSFHG 240  
241 LSSIKLWMSQVSLTERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
241 LSSIKLWMSQVSLTERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
301 PWNCDILMLAWLREYIPNTPNSCCGRCCHAPMHRGRYLVVDQASFOCSAFPIMDAPR 360  
301 PWNCDILMLAWLREYIPNTPNSCCGRCCHAPMHRGRYLVVDQASFOCSAFPIMDAPR 360  
361 DINTSEGRMAELKRTPEPMSSVKMLLPNGTVLVSASHRPRISVINDGTNLFSHVLLSDTG 420  
361 DINTSEGRMAELKRTPEPMSSVKMLLPNGTVLVSASHRPRISVINDGTNLFSHVLLSDTG 420  
421 VYTCWTVNAGNSNAYLVNSTAELNTPNSPTTVTVTTISPEDTTRKPKPVFTTS 480  
421 VYTCWTVNAGNSNAYLVNSTAELNTPNSPTTVTVTTISPEDTTRKPKPVFTTS 480  
481 TGYOPAVTSTVLIQTRVPKQVAVPATDTTDMQOTSLDEVNMTTKIIGCFVAVTLIA 540  
481 TGYOPAVTSTVLIQTRVPKQVAVPATDTTDMQOTSLDEVNMTTKIIGCFVAVTLIA 540  
541 AAMLIYFKLRKRCQSTVTAARTVEIIQVDSIDI PAATSAAATAPSGVSGGAVLPT 500  
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601 IHDHINTYKPAKGAHWNTENSGLNSLHPTVTVTIISBPIYIQTHTKDKVQETQI 653  
601 IHDHINTYKPAKGAHWNTENSGLNSLHPTVTVTIISBPIYIQTHTKDKVQETQI 653

RESULT 42  
US-09-997-683-229  
Sequence 229, Application US/09997683  
Publication No. US20030059783A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Nepier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C32  
CURRENT APPLICATION NUMBER: US/09/997,683  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12

181 PRIOR APPLICATION NUMBER: 60/065311  
181 PRIOR FILING DATE: 1997-11-13  
181 PRIOR APPLICATION NUMBER: 60/066770  
181 PRIOR FILING DATE: 1997-11-24  
241 PRIOR APPLICATION NUMBER: 60/075945  
241 PRIOR FILING DATE: 1998-02-25  
241 PRIOR APPLICATION NUMBER: 60/078910  
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421 PRIOR FILING DATE: 1998-06-02  
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481 PRIOR APPLICATION NUMBER: 60/088021  
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601 PRIOR APPLICATION NUMBER: 60/089514



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;; PRIOR FILING DATE: 1998-07-01

;; PRIOR APPLICATION NUMBER: 60/091478  
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;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L Q V T V H H T N N A I L L P F V Y L T A Q W I L C A A T A A A A S A G P Q N C P S V C S C S N O F S K V 60  
Db 1 M K L L Q V T V H H T N N A I L L P F V Y L T A Q W I L C A A T A A A A S A G P Q N C P S V C S C S N O F S K V 60

Qy 61 C T R R G L S E V P Q G I P S N T R Y L N L M N N I O M I O A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
Db 61 C T R R G L S E V P Q G I P S N T R Y L N L M N N I O M I O A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120

Qy 121 G L A S L N T L E L F O N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M B L D I G E 180  
Db 121 G L A S L N T L E L F O N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M B L D I G E 180

Qy 181 L K K L E Y I S G A P E G L F N L K Y L N L G M C N I K D M P N L P L V G L E B L E M S G N H F P E I R P G S F H G 240  
Db 181 L K K L E Y I S G A P E G L F N L K Y L N L G M C N I K D M P N L P L V G L E B L E M S G N H F P E I R P G S F H G 240

Qy 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L M A N N I S S L P H D L F T P L U R Y L V E L H L H N 300  
Db 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L M A N N I S S L P H D L F T P L U R Y L V E L H L H N 300

Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D O A S P O C S A F F I M D A P R 360  
Db 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D O A S P O C S A F F I M D A P R 360

Qy 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420  
Db 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420

Qy 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E I S P E D T T R K Y K P V P T S 480  
Db 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E I S P E D T T R K Y K P V P T S 480

Qy 481 T G Y Q P A Y T T S T V L I Q T T R V P K Q V A V P A T D T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540  
Db 481 T G Y Q P A Y T T S T V L I Q T T R V P K Q V A V P A T D T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540

Qy 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
Db 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

Qy 601 I H D H I N Y N T Y K P A R G A H W T E N S I G N S L H P T V T T I S E P V I I Q T H T K D K V Q E T Q I 653  
Db 601 I H D H I N Y N T Y K P A R G A H W T E N S I G N S L H P T V T T I S E P V I I Q T H T K D K V Q E T Q I 653

RESULT 43  
US-09-989-729A-229  
; Sequence 229, Application US/09989729A  
; Publication No. US20030059831A1  
; GENERAL INFORMATION:  
; APPLICANT: Askenazi, Avi J.  
; APPLICANT: Baker, Kevin P.

APPLICANT: Solstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavit, Iwar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C59  
CURRENT APPLICATION NUMBER: US/09/989,729A  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09  
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 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 Qy 1 MLLQVTVHHVTHWATLLPFFVLTQWVILCAIAAASAGPQPCPSVCSNPFVKV 60  
 Db |||||  
 Qy 61 CTARGLSEVPQGPSNTRYLNLMENNIOQTADTFRHLHLEVQLGRNSIRQIEVGAFN 120  
 Db |||||  
 Qy 61 CTARGLSEVPQGPSNTRYLNLMENNIOQTADTFRHLHLEVQLGRNSIRQIEVGAFN 120  
 ;  
 Qy 121 GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPNIPSPVAFNRPVSLMRDLIGE 180  
 Db |||||  
 Qy 121 GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPNIPSPVAFNRPVSLMRDLIGE 180  
 ;  
 Qy 181 LKLEYISEGAFGLFNKYNLGMCNIKDMPNLTPLVGLBLEMSGNHFFPIRPGSPFHG 240  
 Db |||||  
 Qy 181 LKLEYISEGAFGLFNKYNLGMCNIKDMPNLTPLVGLBLEMSGNHFFPIRPGSPFHG 240  
 ;  
 Qy 241 LSSLKKLVWNSQVSLIERNAPGLASVELNLAHNLSLSPDLFTPLRYLVELLHHN 300  
 Db |||||  
 Qy 241 LSSLKKLVWNSQVSLIERNAPGLASVELNLAHNLSLSPDLFTPLRYLVELLHHN 300

RESULT 44

US-09-957-349-229  
 ; Sequence 229, Application US/09997349  
 ; Publication No. US20030059832A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
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 ; PRIOR FILING DATE: 1998-02-25  
 ; PRIOR APPLICATION NUMBER: 60/078910

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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

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DB 1 MKLLQVTHHHWNAILLFFVLTQWILCAATAAASAGQPCSPVCSNFSKV 60

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DB 61 CTRRGLSEVPQGISNRYLNKNNIOMIQDTFRHLHLEVLQIGRNSRQIEVGFN 120

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QY 181 LKLEVISGAPGLNLYNLMGNCNIXDMNMLPLVGLBLELSNGHNFPIRPGSFHG 240
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QY 361 DLNISGRMAELKCRTPPMSSVKWLLPNCVTLVSHASRHPRIISVLDNGTLNFSHVLLSDTG 420
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QY 421 VYTCMVNTVAGNSNAGLAYLNVSIAELNNTSNYSFFTTVTVEITSPEDTTRKYKVPVPTS 480
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RESULT 45

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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

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; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William L.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC31
; CURRENT APPLICATION NUMBER: US/09/997,440
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; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Sacon, Dan L.  
; APPLICANT: Ferrara, Napoleone  
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; APPLICANT: Godowski, Paul J.  
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; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
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; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07

; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHTWNAILLPFVYLTQAQWILCAIAAASAGPQNCPSVCSCNQFSKV 60
DB 1 MKLLMQVTVHHTWNAILLPFVYLTQAQWILCAIAAASAGPQNCPSVCSCNQFSKV 60

QY 61 CTRGSLSEVPOGIPSNTRYLNMENNIOMIQADTFRHHLHLEVLOLGRNSIROEVGAFN 120
DB 61 CTRGSLSEVPOGIPSNTRYLNMENNIOMIQADTFRHHLHLEVLOLGRNSIROEVGAFN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRLELNNPIESIPSYAFNRVPSLMRLDGE 180
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRLELNNPIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEYISEGAFEGFLPNLKYMLGMCNIDKMPNLTPLVGLLEEMSGNHPPEIRPGSFHG 240
DB 181 LKLEYISEGAFEGFLPNLKYMLGMCNIDKMPNLTPLVGLLEEMSGNHPPEIRPGSFHG 240

QY 241 LSSLKKLWUMNSOVSLIRNAPDGLASLVEINLAHNLSLPHDLFTPLRYLVELLHHN 300
DB 241 LSSLKKLWUMNSOVSLIRNAPDGLASLVEINLAHNLSLPHDLFTPLRYLVELLHHN 300

QY 301 PNWCDCDILWLAWLREVIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360
DB 301 PNWCDCDILWLAWLREVIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360

QY 361 DANISEGRMAELKCTPPMSSVVKWLLPNGTVLSHARPRISVLDGTLNFSHVLLSDTG 420
DB 361 DANISEGRMAELKCTPPMSSVVKWLLPNGTVLSHARPRISVLDGTLNFSHVLLSDTG 420

QY 421 VYTCWTVNAGNSASAVLNVSTAEINTSNYSFPTTVTVEITEISPEDTTKYKVPVPTS 480
DB 421 VYTCWTVNAGNSASAVLNVSTAEINTSNYSFPTTVTVEITEISPEDTTKYKVPVPTS 480

QY 481 TGYQPAYTSTTVLIQTRVPKQAVPATDITDKVQTSLSDEVMTTKIIIGCFVAVTLLA 540
DB 481 TGYQPAYTSTTVLIQTRVPKQAVPATDITDKVQTSLSDEVMTTKIIIGCFVAVTLLA 540

QY 541 AAMLIVFKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600
DB 541 AAMLIVFKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600

QY 601 IHDHINYNTYKPAHGAHTWNSLGNLSLHPTVTITISEPVIIQTHTKDKVQETQI 653
DB 601 IHDHINYNTYKPAHGAHTWNSLGNLSLHPTVTITISEPVIIQTHTKDKVQETQI 653

RESULT 47
US-09-993-469-229
; Sequence 229, Application US/09993469
; Publication No. US20030068623A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
```



APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC5  
CURRENT APPLICATION NUMBER: US/09/993,469  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 653; DB 11; Length 653;
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D b 1 M K L L Q V T V H H T W A I L L P F Y L T A Q W I L C A I A A A S A G P Q N C P S V C S C S Q F S K V 60
QY 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q I O A D T F R H L H L E V L Q L G N S I R Q I E V G A F N 120
D b 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q I O A D T F R H L H L E V L Q L G N S I R Q I E V G A F N 120
QY 121 G L A S L N T L E L F D N M L T V P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D I G E 180
D b 121 G L A S L N T L E L F D N M L T V P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D I G E 180
QY 181 L K X L Y I S E G A F E G L F N L K Y L N G C N I K O M P N L T P L V G L E E L E S G N H P P E I R P G S F H G 240
D b 181 L K X L Y I S E G A F E G L F N L K Y L N G C N I K O M P N L T P L V G L E E L E S G N H P P E I R P G S F H G 240
QY 241 L S S L K L W M N S Q V S L I E R N A P D G L A S V E L N A H N L S S L P H D L F T P L R Y L V E L H L H E N 300
D b 241 L S S L K L W M N S Q V S L I E R N A P D G L A S V E L N A H N L S S L P H D L F T P L R Y L V E L H L H E N 300
QY 301 P W N C D I L W L A W L R E V I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P I M D A P R 360
D b 301 P W N C D I L W L A W L R E V I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P I M D A P R 360
QY 361 D L N I S E G R M A E L K C T P P M S S V K M L L P N G T V L S H A S R P R I S V L N D G T L N P S H V L L S D T G 420
D b 361 D L N I S E G R M A E L K C T P P M S S V K M L L P N G T V L S H A S R P R I S V L N D G T L N P S H V L L S D T G 420
QY 421 V Y T Q W T V N V A G N S N A S A Y L N W S T A B L N T S N S F F T V T V T E I S P E D T T K Y K P V P T T S 480
D b 421 V Y T Q W T V N V A G N S N A S A Y L N W S T A B L N T S N S F F T V T V T E I S P E D T T K Y K P V P T T S 480
QY 481 T G Y Q P A Y T T S T T V L I Q T T R V P Q V A P A I D T D R K M Q T S L D E V M K T I I I G C F V A V I L L A 540

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D b 481 T G Y Q P A Y T T S T T V L I Q T T R V P Q V A P A I D T D R K M Q T S L D E V M K T I I I G C F V A V I L L A 540
QY 541 A A M L I V F Y K L R K S H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G S G E G A V L P T 600
D b 541 A A M L I V F Y K L R K S H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G S G E G A V L P T 600
QY 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T T I S E P Y I I O T H K K Q V O E T Q I 653
D b 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T T I S E P Y I I O T H K K Q V O E T Q I 653

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RESULT 48

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US-09-997-542-229
; Sequence 229, Application US/09997542
; Publication No. US2003006847A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC26
; CURRENT APPLICATION NUMBER: US/09/997,542
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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11	PRIOR APPLICATION NUMBER: 60/088026	
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23	PRIOR APPLICATION NUMBER: 60/088167	
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Best Local Similarity 100.0%; Pred.No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0
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 121 GLASLNTLELFDNLTVPISGAFYLSKRLWLNPNPIESIPSYAENRVPISLMLDLGE 180  
 181 LKLEYISEGAFGLFNKLYNLGNOMKPNUTPLVGLSELEMSGNHPPRPSGFH 240  
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 301 PWNCDLILAWLREYIPNTSCGCRHAPMGRGYLVEVDQASFOCSAPPINDAPR 360  
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 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
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 601 IHDHINNTYKPAHGAHTWENSLSLHPTVTITSEPIYIIQTHTKKVQSTQI 653  
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RESULT 49

US-09-993-748-229

Sequence 229, Application US/09993748

Publication No. US20030069403A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Destovers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fog, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Klijav, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tukas, Daniel  
 APPLICANT: Katanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.

APPLICANT: Zhang, Zenin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PLC23  
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Db	61	CTRRLSEVPQGPISNTRYLNLMENNIIQIADTFRLHLHLVQLGRNSIRQIEVGAEN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRELMRNPIESIPSYAFNRPVSLMRDLGE	180
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Db	181	LKKLEYISEGAFEGLEFNLKYLNLGMCNIKDMPNLTPIVGLRELEMSGNHFFPIRPSFPG	240
Qy	241	LSSLKLLWVWNSQVSLIERNAPDGLASVELNLAHNLSLPHDLPTPLRYLVELHLHN	300
Db	241	LSSLKLLWVWNSQVSLIERNAPDGLASVELNLAHNLSLPHDLPTPLRYLVELHLHN	300
Qy	301	PWNCDCDILMLAWLREYIPTNSTCCGRCHAPMMEGRYLVVEVDQASFOCSAFFIMDAPR	360
Db	301	PWNCDCDILMLAWLREYIPTNSTCCGRCHAPMMEGRYLVVEVDQASFOCSAFFIMDAPR	360
Qy	361	DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHASHRPHRISVLNDGTLNFSVLSDTG	420
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Db	421	VYTCWVTNVAGNSNASAYLVNSTAEIANTSNYSFTTIVTVEITISPEDTRTKYKVPPTTS	480
Qy	481	TGYQPAVTTSTTVLIQTRVPKQVAVPATDTTDMQTSLDENVMTTKIILIGCFVAVTLLA	540
Db	481	TGYQPAVTTSTTVLIQTRVPKQVAVPATDTTDMQTSLDENVMTTKIILIGCFVAVTLLA	540
Qy	541	AAMLIIVFYKLRKHQRSTVTAARTVEILIOVDEDIIPAATSAATAAPSGVSGGAVLPT	600
Db	541	AAMLIIVFYKLRKHQRSTVTAARTVEILIOVDEDIIPAATSAATAAPSGVSGGAVLPT	600

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## RESULT 50

S-09-990-439-229

Sequence 229, Application US/09990439

Publication No. US20030073090A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlitsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

CURRENT APPLICATION NUMBER: US/09/990,439

CURRENT FILING DATE: 2001-11-16

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PRIOR FILING DATE: 1997-06-16

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Db 61 CTRRGLSEVPGQIPSTRYINLMENNIOQADTFRHLHLEVLQAGNSIRQIEVCAFN 120

QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKLRELMRNPIESISYAFNRPVPSLMRLDLGE 180
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DB 301 PWNCCDILMLAWLREXIPNTNSTCCGRCHAPWEMRGYLVVEVDQASFOCSAPFINDAPR 360
QY 361 DLNISEGMAELKCRTPPMSSVKWLLPNGTVLSHASHHPRISVINDGTNFSHVLLSDTG 420
DB 361 DLNISEGMAELKCRTPPMSSVKWLLPNGTVLSHASHHPRISVINDGTNFSHVLLSDTG 420
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